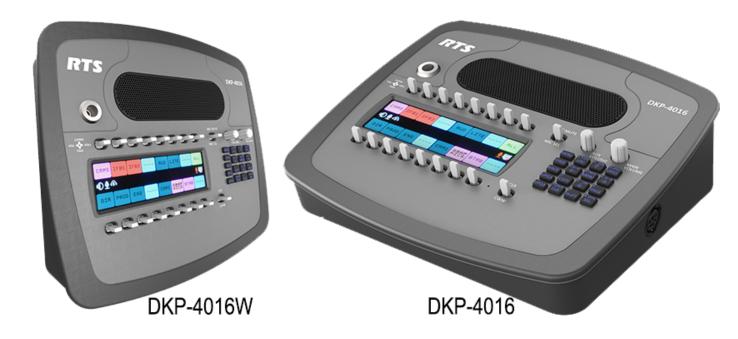


DKP-4016/4016W Keypanel Technical Manual

up to and including version 1.2.0 includes support for Control Package Audio Package



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WARRANTY AND SERVICE INFORMATION

For warranty and service information, refer to the appropriate web site below:

RTS Intercoms www.rtsintercoms.com/warranty

RTS Digital RTSTW AudioCom RadioCom Intercom Headsets

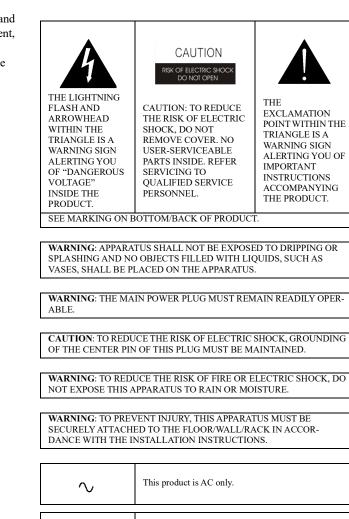
CUSTOMER SUPPORT

Technical questions should be directed to:

Customer Service Department Bosch Security Systems, LLC www.telex.com

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The manufacturer of the equipment described herein makes no expressed or implied warranty with respect to anything contained in this manual and shall not be held liable for any implied warranties of fitness for a particular application or for any indirect, special, or consequential damages. The information contained herein is subject to change without prior notice and shall not be construed as an expressed or implied commitment on the part of the manufacturer.



CE

Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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chapter 1 Introduction

The DKP-4016/4016W series keypanels delivers superior high-quality digital audio using OMNEO technology from Bosch with Dante audio over IP via either copper or fiber. The DKP-4016/4016W series keypanels delivers audio, free of noise, delay, and other artifacts present in legacy technology. This family of keypanels includes a rich set of connectors as standard, including **GPIO** (General Purpose Input and Output) and **RC** (Rear Connector) kit. As with other RTS products, emphasis is placed on backward compatibility with previous generations of matrices including analog technology.

The DKP-4016/4016W series utilizes the latest generation of wide angle TFT displays providing superior clarity, resolution, and longer display life delivering high-quality readability under a variety of lighting conditions.

Optionally, there are two (2) packages (Control and Audio) with additional features and functions, such as voice message, real-time control, keypanel mirroring, etc. For more information on these packages, see "Audio and Control Packages" on page 275.

Features

- Superior digital, high-quality audio over IP (Internet Protocol) included through OMNEO technology, the branded IP-based solution from Bosch.
- Advanced signal processing, delivering an audio experience, free of noise, echo, delay and other artifacts present in legacy technology.
- Backward compatible with legacy technologies, such as analog audio in USOC and 568-B formats.
- All previous optional hardware connectors (RC, GPI, etc) are now standard.
- New wide-angle high-definition display.
- Enhanced keypanel menus optimized for ease of use.
- For an additional price each, an Audio and/or Control add-on package is available for the DKP-4016/4016W, to greatly expand your keypanel and intercom system experience and capabilities. For more information on these packages, see "Audio and Control Packages" on page 275.

Specifications	Front Panel Mic
	Туре
LCD Display DKP-4016/4016W	Typical Input Lev
Active Area 120.10 mm (wide) x 35.86 mm (high)	Typical Input Imp
Dot Resolution	Maximum Input I
Color Resolution	Rear Panel Mic
View Angle	Туре
Power Supply:	Typical Input Lev
Type:Internal	Typical Input Imp
AC Input: 100–240 VAC 50/60 Hz	Maximum Input I
General Purpose Inputs and Outputs:	Left and Right H
Outputs	Typical Input Lev
Type (relays) SPDT	Typical Input Imp
Contact Rating 1AMP @ 30VDC	Maximum Input I
Inputs	Left and Right H
TypeOptically Coupled	Typical Input Lev
Input Voltage 5-18 VDC on A+	Typical Input Imp
\bullet A+ is internally pulled to 5VDC. Connect K- to \rightarrow to activate. \bullet	Maximum Input I
Inputs: Matrix	Outputs: Matrix
TypeBalanced	Туре
Typical Input Level+8 dBu	Typical Output Le
Typical Input Impedance	THD+N%
Maximum Input Level+20 dBu	Typical Output Im
Supported Bandwidth100 Hz to 20 kHz	Maximum Output
AUX	Frequency Respon
TypeBalanced	MIC/LINE Out
Typical Input Level+8 dBu	Туре
Typical Input Impedance	Typical Output Le
Maximum Input Level	THD+N%
Supported Bandwidth	Typical Output In
	Maximum Output

Туре	. Electret
Typical Input Level	42 dBu
Typical Input Impedance	1 kΩ
Maximum Input Level	25 dBu
Rear Panel Mic	
Туре	. Electret
Typical Input Level	42 dBu
Typical Input Impedance	1 kΩ
Maximum Input Level	25 dBu
Left and Right Headset Mic - Electret	
Typical Input Level	42 dBu
Typical Input Impedance	1 kΩ
Maximum Input Level	25 dBu
Left and Right Headset Mic - Dynamic	
Typical Input Level	50 dBu
Typical Input Impedance	600 Ω
Maximum Input Level	25 dBu
Outputs: Matrix	
ТуреЕ	Balanced
Typical Output Level	+8 dBu
THD+N%	.<0.20%
Typical Output Impedance	600 Ω
Maximum Output Level	+20 dBu
Frequency Response 100 Hz to	o 20 kHz
MIC/LINE Out	
ТуреЕ	Balanced
Typical Output Level	+8 dBu
THD+N%	<0.20%
Typical Output Impedance	600 Ω
Maximum Output Level	+20 dBu
Frequency Response 100 Hz to) 20 kHz

Headset - Left, Right	P
Maximum	D
Output Power 125 mW for 32 Ω load	N
Earphone Impedance	Μ
THD+N%	М
Frequency Response20 Hz to 20 kHz	C
Speaker - Rear	
Maximum Output Power	
Speaker Impedance 4 Ω and 8 Ω	
THD+N%	
Frequency Response20 Hz to 20 kHz	
Digital: OMNEO Channels	
Typical OMNEO Latency1 ms	
Frequency Response20 Hz to 20 kHz	
Environmental: Dimensions	
DKP-4016/4016W	
3.60 in. H x 10.63 in. W x 9.35 in. D (91.5 mm H x 270.1 mm W x 237.6 mm D)	
Weight	

DKP-4016/4016W...... 3.70 lb. (1.68 kg)

Operating...... 0° C to 50° C (32° F to 122° F) Storage...... -20° C to 70° C (-4° F to 158° F)

Temperature

Power Consumption: DKP-4016/4016W

Nominal	.22 Watts
Maximum	.39 Watts
Maximum Volt Amp	63 VA

Certification:

- CE Compliant
- UL Certified
- PSE

DKP-4016/4016W Block Diagram

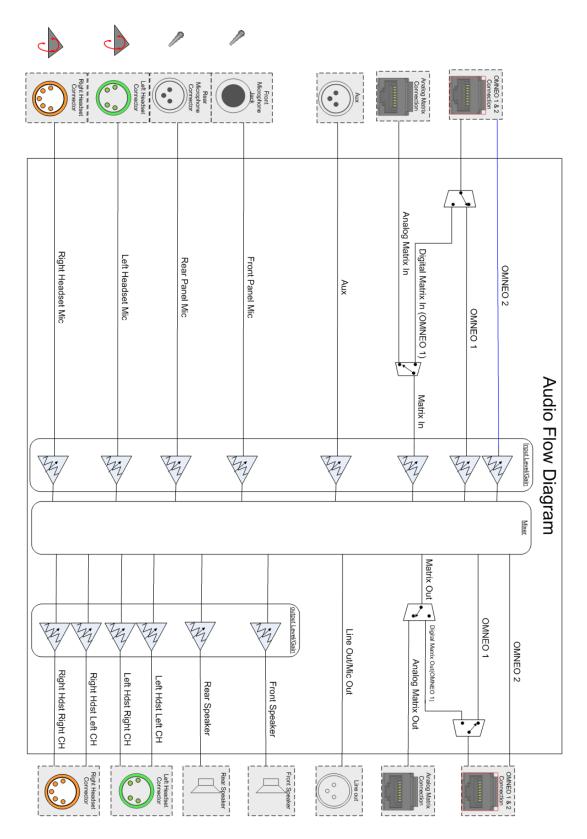


FIGURE 1. DKP-4016/4016W Audio Flow Block Diagram

a. Additionally licensed OMNEO channels 3-8 not shown.

Reference View – DKP-4016/4016W



FIGURE 2. DKP-4016/4016W Reference View

- 1. Multi-Directional Lever Keys
- 2. High Resolution, Wide-Angle LCD Display
- 3. Microphone Connector
- 4. Front Speaker
- 5. MIC MUTE/MIC SEL Lever Key
- 6. AUX VOLUME Knob
- 7. MAIN VOLUME Knob
- 8. Keypad
- 9. CLR/CWW Lever Key
- 10. User Reset Hole
- 11. 4-pin Headset Connector
- **12.** AC Power
- 13. AUX1 Connector
- 14. EXT MIC Connector
- 15. MIC OUT Connector

- **16.** FRAME Connector
- 17. SPEAKER Connector (2-position Terminal Block)
- **18.** GPIO Connector (12-position Terminal Block)
- **19.** OMNEO ETHERNET Connector
- 20. OMNEO ETHERNET Connector
- 21. OMNEO OPTICAL (fiber) Indicator LED
- 22. OMNEO OPTICAL (fiber) Connector
- 23. 5-pin Headset Connector

Connector Pinouts

Rear Speaker: J2	
Pin	Assignment
Pin 1	Rear Speaker -
Pin 2	Rear Speaker +

Aux1: J3	
Pin	Assignment
Pin 1	GND
Pin 2	AUX 1 IN +
Pin 3	AUX 1 IN -

Rear Panel Mic: J6	
Pin	Assignment
1	REAR_PANEL_MIC_IN -
2	REAR_PANEL_MIC_IN +
3	GND

MIC OUT/LINE OUT: J7		
Pin	Assignment	
1	GND	
2	MIC_OUT/LINE_OUT +	
3	MIC_OUT/LINE_OUT -	

Right Headset: J5 (Wallmount version – J15)		
Pin	Assignment	
1	RIGHT_HS_MIC_IN -	
2	RIGHT_HS_MIC_IN +	
3	RIGHT_HS_COMMON	
4	RIGHT_HS_L_OUT	
5	RIGHT_HS_R_OUT	

Left Headset: J15 (Wallmount version – J5)		
Pin	Assignment	
1	LEFT_HS_MIC_IN -	
2	LEFT_HS_MIC_IN +	
3	LEFT_HS_COMMON	
4	LEFT_HS_L_OUT	

Matrix Connector: J8 ^a		
Pin	RJ-45	RJ-12
1	RS485 +	
2	RS485 -	RS485 -
3	FROM MATRIX +	FROM MATRIX +
4	TO MATRIX +	TO MATRIX +
5	TO MATRIX -	TO MATRIX -
6	FROM MATRIX -	FROM MATRIX -
7	RS485 +	RS485 +
8	RS485-	

a. Supports 568B and USOC wiring

GPIO Connector: J10		
Pin	Assignment	
1	Chassis GND	
2	OPTO1_CATHODE	
3	OPTO1_ANODE	
4	RELAY1_NO	
5	RELAY1_NC	
6	RELAY1_COM	
7	Chassis GND	
8	OPTO2_CATHODE	
9	OPTO2_ANODE	
10	RELAY2_NO	
11	RELAY2_NC	
12	RELAY2_COM	

ETHERNET: J11		
Pin	Assignment	
1	Data 1 +	
2	Data 1 -	
3	Data 2 +	
4	Data 3 +	
5	Data 3 -	
6	Data 2-	
7	Data 4+	
8	Data 4-	

ETHERNET: J12		
Pin	Assignment	
1	Data 1 +	
2	Data 1 -	
3	Data 2 +	
4	Data 3 +	
5	Data 3 -	
6	Data 2-	
7	Data 4+	
8	Data 4-	

Front Panel Mic	
Pin	Assignment
Tip	REAR_PANEL_MIC_IN +
Ring	REAR_PANEL_MIC_IN -
Sleeve	CGND

18 Introduction

chapter 2 Installation

Requirements

The following keypanel firmware versions are needed for the specified DKP-4016/4016W model:

AZeditV5.2.0 or later IPeditV3.2.3 or later MCII-eV3.4.0 or later AIO-16V1.7.0 or later FWUTV4.20.3586 or later DNS-SDV4.20.3586 or later OMIV5.2.12 or later

DKP-4016 Installation

IMPORTANT: For DKP-4016W wall mounting instructions, see "Wall Mounting Option" on page 271.



FIGURE 3. DKP-4016 Installation

To install the DKP-4016, do the following:

- 1. On the rear panel of the DKP-4016, plug the AC power cord (A) into the power connector on the back panel of the unit.
- 2. Connect an **RJ-12** or **RJ-45** (USOC or 568B) cable (B) with RTS cabling to the J8 FRAME connector. OR

Connect an CAT-5e cable (C) to either J11 or J12 ETHERNET connector.

NOTE:

- If you have the option J13 fiber connector installed, connect a fiber connector (D) to the OPTICAL fiber connector on the rear panel.
- The KP-Series panels can have both AIO and Ethernet connected simultaneously, and the user can switch between connections using the menus.
 - 3. Once the unit is cabled, plug the AC power cord into the wall outlet or a power strip.

Connecting the Keypanel to the Intercom

You can configure the OMI using AZedit and IPedit; however, only IPedit can used to configure the keypanel.

Configure the OMI using AZedit

To configure the OMI to the DKP-4016/4016W using AZedit, do the following:

- From the Status menu in AZedit, select I/O Cards. The I/O Card Status window appears showing a list of installed cards.
- 2. Right-click the **OMI card** you want to configure to the keypanel. *A pop-up menu appears.*
- **3.** From the pop-up menu, select **OMNEO Configuration**. *The OMNEO Configuration window appears.*
- 4. From the OMNEO card drop down menu, select the **slot number** where the OMI card is located in the frame. *The Device Name field auto-populates with the name of the device.*
- 5. From the Local Channel drop down menu, select the **channel** you want to use to communicate to your keypanel across the network.

NOTE: Channels not already configured to connect to another device appear with an asterisk (*) next to them.

6. In the Partner Device Name field, enter the **name of keypanel** you want to use to communicate with or select the **Browse icon** to select from a list of devices.

OR

In the Partner IP Address field, enter the **IP Address** of the device to which you want to connect. This field auto-populates when you select the Device Name.

- 7. From the Partner Device Type drop down menu, select the type of device to which the OMI card is connecting.
- 8. From the Partner Channel drop down menu, select the **channel** on the device to which the OMI communicates.
- **9.** Once you are completely finished, click **Apply**. *Apply sends all the changes to all the cards in the intercom, or Click Cancel to discard all the changes made.*

Add the OMI to the Device Catalog in IPedit

To add the OMI to IPedit, do the following:

- 1. Open IPedit.
- 2. From the Device menu, select Add. *The Add Devices Window appears, open to the Search tab.*
- **3.** Select the **OMI card**. *The Add button becomes active.*
- 4. Click the Add button. The OMI card appears in the device catalog in the left panel.
- Click the Done button. The Add Devices window closes.

Configure the OMI using IPedit

To configure the OMI using IPedit, do the following:

Using the Device Configuration and Status Pane

1. In the Device Name field, enter a **device name** familiar to you. *Initially, OMI cards are given a default name.*

IMPORTANT:	If you change the device name, this causes the device to reboot. It is not necessary to change the device name.	
However, if you do change the name, it is best to do this early in the setup so you do not have to revisit		
	that connect to this device and update them later.	

2. In the Description field, enter a description for the OMI card, if desired.

Using the Channel Configuration and Status Section:

- 3. In the Channel Description field, enter a **channel description**, if applicable.
- 4. From the Destination Type drop down menu, select **OKP**.

NOTE: The Destination Type does not need to be selected if using the Browse window to select the device. It fills the type and IP Address automatically. The type is either OKP-2 or OKP-8 depending on the license for 2 or 8 OMNEO channels.

 In the Destination Device Name field, enter the name of the device to which the channel will connect. OR

Click the ... button. *The Discovered Devices Window appears*. Expand the **tree** to view the destination devices available. From the expanded tree, select the **device** you want for your destination device. Click **OK**.

- 6. From the Destination Channel drop down menu, select the channel to which the OMI will connect.
- 7. Send the changes to the OMI.

DKP-4016

Add the DKP-4016/4016W to the Device Catalog in IPedit

To add the keypanel to IPedit, do the following:

- 1. Open IPedit.
- 2. From the Device menu, select Add. *The Add Devices Window appears, open to the Search tab.*
- Select the keypanel. The Add button becomes active.
- 4. Click the Add button. *The OKP-2/8 appears in the device catalog in the left panel.*
- 5. Click the **Done button**. *The Add Devices window closes*.

Configure the DKP-4016/4016W using IPedit

To configure the keypanel using IPedit, do the following:

Using the Device Configuration and Status Pane

1. In the Device Name field, enter a **device name** familiar to you. *Initially, keypanels are given a default name.*

IMPORTANT: If you change the device name, this causes the device to reboot. It is not necessary to change the device name. However, if you do change the name, it is best to do this early in the setup so you do not have to revisit other devices that connect to this device and update them later.

2. In the Description field, enter a description for the keypanel, if desired.

Using the Channel Configuration and Status Section:

- 3. In the Channel Description field, enter a channel description, if applicable.
- 4. From the Destination Type drop down menu, select OMI.

NOTE: The Destination Type does not need to be selected if using the Browse window to select the device. It fills the type and IP Address automatically. The type can be OMI-16, OMI-332, OMI-48, or OMI-64 depending on the license.

5. In the Destination Device Name field, enter the name of the device to which the channel will connect.

OR

Click the ... button.

The Discovered Devices Window appears.

- a. Expand the ree to view the destination devices available.
- b. From the expanded tree, select the device to which you want to connect this keypanel.
- c. Click OK.
- 6. From the Destination Channel drop down menu, select the channel to which the keypanel will connect.
- 7. Send the changes to the keypanel.

24 Installation

Connecting the DKP-4016/4016W through the OMNEO Offers Menu

IMPORTANT: If you used IPedit to set up the keypanel connection, this step is not needed, because you have already done this in the software.

To finish the configuration, you must configure the keypanel to talk with the OMI card in the frame. To do this, you must establish a connection using the OMNEO Offers menu on the keypanel. For more information, see "Menu System, OMNEO Offers" on page 218.

To configure an available OMNEO device connection port, do the following:

- 1. Starting at the OMNEO Offers|Keypanel menu, select OKP.
- 2. Press the SEL button. A list of available OMNEO offers appear.
- **3.** Using the arrow buttons, select the **OMNEO offer** you want to use. *An arrow appears next to the device.*
- 4. Press the CLR button to exit menu mode.

Power Up

At power-up, if the keypanel is connected to the matrix, the alphanumeric display shows dashes in the light blue color key several seconds, the intercom key assignments display with the appropriate color keys and alphas.

NOTE: If the keypanel cannot establish communications with the intercom system, all alphanumeric displays continue to show

asterisks (****) and the *Disconnected from Matrix* icon **FROM MATRIX** appears in the panel display. If the keypanel is configured for OMNEO, this icon also displays the OMNEO device name. Check the keypanel to matrix cable connection if this occurs. If the keypanel loses communications with the intercom, the panel display shows the Disconnected from Matrix

icon and displays the after approximately 30 seconds.

Address Setting

General Information

In ADAM intercoms using AIO-8 cards or AIO-16 cards with SCSI breakouts, and in ADAM-CS and Zeus/Zeus II intercoms, the intercom ports share data connections in groups of eight (8). Each keypanel is uniquely identified on the data port by its address. The method of determining the proper address varies for each intercom system. Use the method for your intercom system, as described on the following pages.

TABLE 1. DKP-4016/4016W Addressing

Manually Addressed	Automatically Addressed
You must manually address ^a the keypanel when using the following:	The keypanel address is automatically detected when using the following:
• AIO-8 on ADAM	 AIO-16 MDR on ADAM and ADAM-M
AIO-16 SCSI on ADAM	• Cronus
• ADAM CS	• Zeus III and Zeus III LE/LE+
• Zeus I	• RVON Products - RVON-8, RVON-2,
• Zeus II	RVON-C, and RVON-16
	NOTE: Keypanels using RVON-I/O may need to be individually addressed. See the RVON-I/O user manual for further instruction.

a. To manually address the DKP-4016/4016W, see "Service Menu, Set Address" on page 236.

To see specific addressing information for:

- ADAM with AIO-8 cards, see the ADAM technical manual (P/N F01U216986).
- ADAM CS, see the ADAM CS technical manual (P/N 93307517000).
- ADAM and ADAM-M with AIO-16 cards, see the AIO-16 user manual (P/N F01U193267).
- Cronus, see Cronus user manual (P/N F01U118890).
- Zeus III, see the Zeus III user manual (P/N F01U193289).
- Zeus III LE/LE+, see the Zeus III LE/LE+ user manual (P/N F01U193290).
- **NOTE:** If you are connecting to an ADAM or ADAM-M frame with AIO-16 cards using MDR connectors or a Cronus frame, you do not need to set the address. If the AIO-16 is using SCSI breakouts, you must set the address.

Connections

Frame Connector

Use the Frame connector to connect to an intercom port of the intercom system. For the frame connector location, see Figure 2 on page 15. The intercom port you connect to should agree with the address you set previously.

Ethernet Connector

Use the Ethernet connector to connect the keypanel to a network system. Each RJ-45 Ethernet connector has two (2) LEDs:

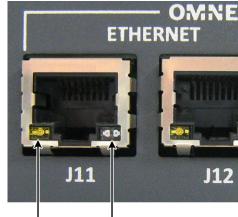
Left LED. The left LED is yellow and indicates a network link is established. It flashes on/off whenever there is network activity.

Right LED. The right LED is bi-color (orange and green) and indicates the speed of the connection by the color that is displayed.

- A green LED indicates the port is operating at 1000Mbps (1 Gbps).
- An orange LED indicates the port is operating at 100Mbps.
- No LED color indicates the port is operating at 10Mbps. This is not suitable for OMNEO networking.

Panel Microphone Connector

A panel microphone may be connected to the front or rear of the unit. The connector accepts MCP5, MCP6, or MCP90 series panel microphones. Insert the microphone and rotate the entire microphone body clockwise several turns to lock it in place.





GPIO 12-Position Terminal Block Connector

The **GPIO 12-Position Terminal Block Connector** is used to provide connections to relays (outputs) and opto-isolators (inputs). Using the table, "GPIO Connector: J10" on page 17, connect the correct wires to the 12-position connector.

Wire Specifications

Solid Wire: 26-16AWG/0.13–1.5MM² Stranded Wire:26-16AWG/0.13–1.5MM²

To connect the 12-position terminal block to the keypanel, do the following:

- 1. Align the terminal block connector with the 12-position connector on the rear side of the keypanel.
- Gently push the connector into place. You should see the locking levers lock into place.

To detach the 12-position terminal block connector from the keypanel, do the following:

Using both thumbs, gently press up on the locking levers.
 The connector is released from the keypanel.



Speaker 2-Position Terminal Block Connector

The **Speaker 2-Position Terminal Block Connector** is used to connect an external speaker to the keypanel. This may be a speaker in another room or a speaker the user likes to use.

Wire Specifications

*Solid Wire: 26-16AWG/0.13–1.5mm*² *Stranded Wire: 26-16AWG/0.13–1.5mm*² *Torque: 3.0lb-IN/0.34Nm*

WARNING: The positive (+) and negative (-) terminals of the connector should be connected to the positive (+) and negative (-) terminals of the external speaker. These terminals should never be connected to GND or permanent damage can occur.

To connect the 2-position terminal block to the keypanel, do the following:

- 1. Align the **2-position** terminal block connector with the **2-position** connector on the rear side of the keypanel.
- 2. Gently push the **connector** into place.

To detach the 2-position terminal block connector from the keypanel, do the following:

> Using the thumb and fore-finger, carefully wiggle the **2-position terminal block** until is comes free from the connector.



DKP-4016

Footswitch Cabling

A Footswitch is a foot activated device used to turn a talk key on or off. There are two (2) steps to cable and configure a footswitch:

- **Step 1** Cable the device to the keypanel.
- Step 2 Configure the GPIO as a talk key on the keypanel. See "Service Menu, Local GPIO" on page 228. OR

Enable the Footswitch in the keypanel menu. See "Service Menu, Footswitch" on page 222.

To attach a footswitch to the DKP-4016/4016W, do the following:

- 1. On the back panel of the DKP-4016/4016W, locate **J10, the 12-position terminal block**.
- 2. Using Figure 4, cable the footswitch to OPT 1 at the K- and Chassis ground positions.

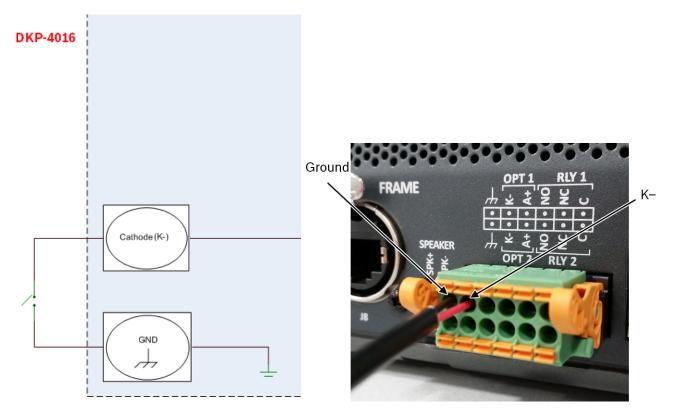


FIGURE 4. Footswitch Cabling and Wiring

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DKP-4016

CHAPTER 3 Basic Operation

Intercom Keys and Displays

Color Display Descriptions for Intercom Keys

The DKP-4016/4016W display uses key colors to distinguish the type of key assignment assigned to the key. Use Table 2, to help you determine the available key assignment colors.

 TABLE 2. Default Key Colors

Defau	lt Color	Description
	Amber	Waiting for Footswitch
	Bright Green	Listen Indicator, Local Matrix
	Brown	IFB Special List
	Teal	Point-to-Point
	Dark Yellow	ISO
	Light Blue	Unassigned, Test Mode (with Talk and Listen Indicators)
	Pale Yellow	Special Functions
	Magenta	Relay
	Pink	Party Line
	Red	Remote Matrix
	Salmon	IFB, Talk Indicator
	Pale Green	Special List
	Periwinkle	UPL Resource

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Display Icons

Display Icons are used to indicate the accessories and features enabled, disabled, active, and inactive. Use Table 3 for a complete description of each icon seen on the DKP-4016/4016W.

 TABLE 3. Display Icon Descriptions

Icon	Icon Name	Description
-∕~	Matrix Connected	The keypanel is connected to the Matrix. This icon briefly displays at connection.
ISCONNECTED	Disconnected From Matrix	There is no connection between the Matrix and the keypanel. This icon is displayed as long as there is no Matrix data connection.
		NOTE: When the keypanel is disconnected, it displays its Device Name (for OMNEO) or IP Address (for RVON) device connections.
	Firmware Download	Firmware is being downloaded to the keypanel. A progress bar displays: chunk progress overall progress chunk/overall progress
		NOTE: For more information, see "Download Firmware to the DKP-4016/4016W From AZedit" on page 149.
S	Footswitch Active	The footswitch is active.
FS	Footswitch Enabled	The footswitch is enabled, but not active.
		NOTE: When a keypanel key is latched while the Footswitch is enabled, the key display turns amber to signify it is waiting for the footswitch.
Δ	Left Headphones	The left headphones are enabled. This indicates the left headset microphone is not enabled.
4	Left Headset	The left headset is enabled.
	Left Headset Mic Muted	The left headset mic is muted.
Ģ	Front Microphone	The front microphone is enabled.
	Front Microphone Muted	The front microphone is muted. To mute the front microphone, see "Mute the Microphone/Speaker" on page 56.
	Front Speaker	The front speaker is enabled. To enable the front speaker, see "Audio Options Menu, Speaker" on page 196.
	Front Speaker Muted	The front speaker is muted.
R	Right Headphones	The right headphones are enabled. This indicates the right headset mic is not enabled. To enable the rear headphones, see "Audio Options Menu, Headset Speaker" on page 190.
R	Right Headset	The right headset is enabled.
	Right Headset Muted	The right headset mic is muted.

 TABLE 3. Display Icon Descriptions

Icon	Icon Name	Description
₽	Rear Microphone	The rear microphone is active. To activate the rear microphone, see "Audio Options Menu, Panel Mic" on page 195.
MIC MUTE	Rear Microphone Muted	The rear microphone is muted. To mute the rear microphone, see "Mute the Microphone/Speaker" on page 56.
	Rear Speaker	The rear speaker is active. To activate the rear speaker, see "Audio Options Menu, Speaker" on page 196.
		The rear speaker is muted.
ß	Both Headphones	Both right and left headphones are enabled. This indicates both the right and left headset mics are disabled. To enable the left headphones, see "Audio Options Menu, Headset Speaker" on page 190.
B	Both Headsets	Both right and left headsets are active.
	Both Headsets Muted	Both right and left headset mics are muted.
₽	Both Microphones	Both front and rear microphones are enabled.
MIC MUTE	Both Microphones Muted	Both front and rear microphones are muted. To mute the front microphone, see "Mute the Microphone/Speaker" on page 56.
	Both Speakers	Both front and rear speakers are enabled. To enable the front speaker, see "Audio Options Menu, Speaker" on page 196.
	Both Speakers Muted	Both front and rear speakers are muted.
P	Snoop Tally Active	Snoop Tally is Active on the keypanel. You must have the Hot Mic enabled to use snoop tallies. To enable snoop tallies, see "Service Menu, Snoop Tally" on page 237.
_	Hot Mic	The hot mic is active. To activate Hot Mic, see "Audio Options Menu, Matrix Out" on page 192.
1ĸHz	Tone 1kHz Enabled	Tone 1kHz is enabled on the keypanel. To enable tone 1kHz, see "Audio Options Menu, Tone Gen" on page 197.
SOBHZ	Tone 500Hz Enabled	Tone 500Hz is enabled on the keypanel. To enable tone 500Hz, see "Audio Options Menu, Tone Gen" on page 197.
	OMNEO Enabled	The OMNEO matrix interface is enabled on the panel. For more information on OMNEO Offers, see "Menu System, OMNEO Offers" on page 218.
	OMNEO Disabled	The OMNEO matrix interface is disabled on the panel. For more information on OMNEO Offers, see "Menu System, OMNEO Offers" on page 218.

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 TABLE 3. Display Icon Descriptions

Icon	Icon Name	Description
VIRT	Virtual Key Assignment	Keys are active on a virtual EKP that are not being displayed. For more information, see "Key Options Menu, Panel Swap" on page 214.
		NOTE: A talk or listen bar (or both) displays to indicate which type of virtual keys are active.
AFK	AFK	The AFK (Away From Keypanel) icon displays when a user activates AFK mode and steps away from the keypanel. Callers are notified the user is AFK and can then leave a message.
@ '@ <mark>7</mark>	VM	The Voice Message icon displays when voice messages are present on the keypanel.
•REC	Recording	The Recording icon is shown if an AFK panel is actively recording a message or if the 30- second rolling buffer is enabled.
	Supervisor Mirroring	The Supervisor icon signifies the keypanel is mirroring another keypanel and can make changes to the other keypanel, known as a Target. For more information, see "Service Menu, Mirror (Control Package Only)" on page 230.
	Target Mirrored	The Target icon signifies the keypanel is being mirrored by another keypanel, known as a Supervisor. This keypanel can be taken control of by the Supervisor. For more information, see "Service Menu, Mirror (Control Package Only)" on page 230.
	Matrix In Mute	The Matrix Input volume is muted. When the Matrix Input volume is adjusted down to Mute, the panel displays this flashing icon as a warning that there is no audio from the Matrix.
Α	Audio Package Installed	The optional audio package is installed. When the Audio package is installed, this icon appears at power-up and continues to display until the keypanel connects to the intercom. For more information, see "Audio and Control Packages" on page 275.
С	Control Package Installed	The optional control package is installed. When the control package is installed, this icon appears at power-up and continues to display until the keypanel connects to the intercom. For more information, see "Audio and Control Packages" on page 275.

Keypad Reference View

With the DKP-4016/4016W there are three (3) tiers to the keypad: Primary Mode, SHIFT Mode, and Dial Mode.

Primary Mode

Primary Mode is used for the most common keypanel functions, such as CLR, SEL, and accessing the Main menu. There are no special keypad sequences to use these functions.

SHIFT Mode

SHIFT Mode contains secondary functions used to access more functionality. The SHIFT mode function labels are located in the upperright corner of the keypad key.

NOTE: By default, the keypad backlight changes to *white* when the keypad is in SHIFT mode. For more information, see "Service Menu, Keypad" on page 224.

To access SHIFT Mode, do the following:

- 1. On the keypad, press the SHIFT button.
- 2. On the keypad, press the SHIFT mode button desired.

NOTE: Once you enter SHIFT mode, you can exit the mode by pressing the SHIFT key again, without pressing any other keys.

Dial Mode

DIAL Mode is used to complete telephone operations. For more information, see "Telephone Interface (TIF) Operation" on page 241. When the keypanel is in DIAL mode, the keypad keys support the standard telephone DTMF keypad configuration as a third tier function. The DTMF keypad is seen in the upper-left corner of the keypad keys.

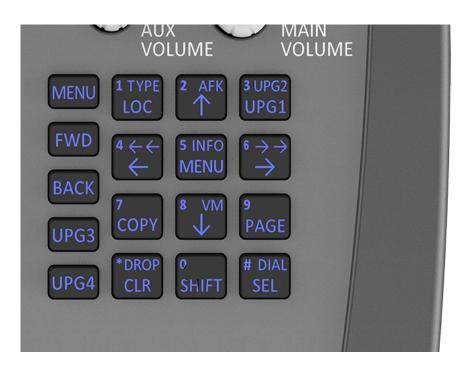


FIGURE 5. DKP-4016 Keypad

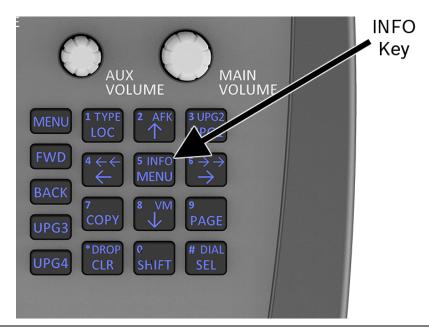
Keypad Button	Shift Function	Dial Function	Description
LOC button	TYPE	1	The LOC/TYPE(1) button displays the list of available intercoms (LOCations) available to scroll from. Select an intercom name to access the scroll lists for that intercom.
			The TYPE button displays the keypanel assignment types available for use.
↑ button	AFK	2	The \uparrow (2) button moves you upward through the scroll list or available key assignments one (1) at a time.
			The AFK (Away From Keypanel) button is used to notify the caller the keypanel user is away from the keypanel. The caller is then able to leave a voice message for the user. For more information, see "Voice Messaging (Audio Package Only)" on page 59.
			To enable AFK on the keypanel, do the following:
			> Press the SHIFT+AFK(2) buttons.
			A yellow AFK icon appears on the left of the left panel display.
			NOTE: For more information, see "Voice Messaging (Audio Package Only)" on page 59.
UPG1 button	UPG2	3	The UPG 1 and UPG 2 buttons are used to assign frequently used menu items. This allows users to access the menu items quickly. UPG buttons can also be programmed to trigger GPI outputs or panel swap events.
← button	← ←	4	The \leftarrow/\leftarrow (4) button moves you backwards through the menu options or available key assignments one at a time or by the page.

Keypad Button	Shift Function	Dial Function	Description
MENU button	INFO	5	The MENU/INFO (5) button is used to access the top level menu structure or access a secondary menu of commonly used features (see, "INFO button" on page 39).
			The MENU button is used to access the top-level menu structure.
			> Press the MENU button once.
			The top-level menu appears in the panel display.
			NOTE: If the keypad backlight is set to Activate (Service Keypad Backlight), you must press the Menu button twice to access the top-level menu. Using the \leftarrow (4) and \rightarrow (6) buttons you can scroll through the list of options available. When a selection is highlighted, Press the SEL button to navigate down one (1) level in the menu structure.
			To access the INFO menu, do the following
			1. Press the SHIFT button .
			2. Press the MENU/INFO (5) button.
			The INFO menu appears in the panel display.
			For more details about the INFO button, see "INFO button" on page 39.
\rightarrow button	$\rightarrow \rightarrow$	6	The $\rightarrow/\rightarrow \rightarrow$ (6) button moves you backwards through the menu options or
			available key assignments one (1) at a time or by the page.
COPY	COPY	7	The COPY (7) button is used to copy an incoming call key assignment from the
button	key-to-key		CWW to a specific keypanel key.
			For example, if caller THRE calls the keypanel, and there is no keypanel key assigned, THRE appears in the CWW window in the keypanel display. If the keypanel operator wants to assign the caller (THRE) a key, use the COPY (7) key on the keypad, and then tap the keypanel key where THRE is to be assigned.
			NOTE: You can also copy from key to key by pressing the COPY+SEL buttons, and then tapping the source key and target key.
↓ button	VM	8	The \downarrow (8) button moves you downward through the scroll list or available key assignments one (1) at a time.
			The VM button is used to retrieve voice messages left on the keypanel.
			To retrieve voice messages, do the following:
			1. Press the SHIFT+VM(8) buttons.
			A scroll list of messages appear in the display panel.
			 Using the UP and DOWN arrows, scroll to the voice message you want to listen to.
			For more information, see "Voice Messaging (Audio Package Only)" on page 59.
PAGE button	Enters graphical page mode	9	The PAGE button is used to access a different setup page. You can configure up to 15 pages in the intercom system. The default number of pages is four (4). To configure the number of pages available use the Intercom Configuration window, on the Options Page in AZedit.
			To program a new page directly, do the following:
			> Press the PAGE button, <#>, then tap a key.
			To enter the graphical page change mode, do the following:
			> Press the PAGE+ SEL buttons. OR
			Press the SHIFT+PAGE buttons.

Keypad Button	Shift Function	Dial Function	Description
CLR button	DROP	*	The CLR/DROP (*) button is used to clear the CWW window or the CLR button functions as a back button.
			To clear a menu , do the following:
			> Press and hold the CLR button for half a second.
			If the CLR/DROP button is pressed when in TIF DIAL mode, it hangs up the TIF connection.
			To access the DROP function, do the following:
			1. Press the SHIFT button (0), and then the DROP button . <i>Tap Key appears in the panel display.</i>
			2. Tap the key you want to drop the call from.
SHIFT button		0	The SHIFT (0) button accesses the secondary keypad actions such as INFO, DROP, etc.
SEL button	DIAL	#	The SEL/DIAL (#) button is used to select options highlighted in the menu structure.
			Press SHIFT+DIAL and then press the TIF key, to enter TIF Dial mode.
MENU	UPG 5		The MENU button is used to access the top-level menu structure.
button			> Press the MENU button once.
			The top-level menu appears in the panel display.
			NOTE: If the keypad backlight is set to Activate (Service Keypad Backlight), you must press the MENU button twice to access the top-level menu.
FWD button	UPG 6		The FWD button moves you forward through the menu option highlighted. For example, if Display is highlighted in the panel display and FWD is pressed, the second level of the display menu appears.
BACK	UPG 7		The BACK button moves you backward, one (1) level, through the menu structure.
button			NOTE: If you are at the top-level of the menu structure and press BACK, you cannot move backward any further.
UPG 3 button	UPG 8		The UPG 3 button is used to assign a frequently used menu item. This allows users to access the menu item quickly. UPG buttons can also be programmed to trigger GPI outputs or panel swap events.
UPG 4 button	UPG 9		The UPG 4 button is used to assign a frequently used menu item. This allows users to access the menu item quickly. UPG buttons can also be programmed to trigger GPI outputs or panel swap events.

INFO button

The INFO button is used to access commonly used features and configuration options for the keypanels. These include the following:



Feature	Description
Panel ID	Displays the port number and alpha of the keypanel.
Level 2	Displays the Level 2 key assignments on the keypanel.
Listen	Displays the listen key assignments on the keypanel.
Callers	Displays a list of current callers to the keypanel.
Assign Types	Displays the assignment types of all the configured keypanel keys.
MAC Address	Displays the MAC Address of the keypanel.
Matrices	Displays the Matrix for each key assignment.
Tone	Opens the Tone Generator menu. For more information, see "Audio Options Menu, Tone Gen" on page 197.
Setup Pages	Displays the setup pages assigned to each row of keys. You cannot change setup pages from this menu.
Reset Vols	Opens the Key Volumes Reset menu. For more information, see "Audio Options Menu, Key Volumes" on page 192.
Hidden Asgns	Displays key assignments assigned to virtual keys (ie, assignments not currently visible).
Test Panel	Enables the Test Panel feature. For more information, see "Service Menu, Test Panel" on page 238.
Version	Displays the firmware version of the DKP-4016/4016W. For more information, see "Display Menu, Version" on page 203.

To access the Info Menu, do the following:

- 1. On the keypad, press the **SHIFT button**.
- 2. On the keypad, press the INFO MENU (5) button. *The INFO menu appears in the panel display.*

NOTE: To exit the INFO menu mode, press the CLR button.

Breadcrumb Menu Navigation

Breadcrumb Navigation is a graphical aid to help users know where they are in the menu structure. The breadcrumb menu visually lays out a path of options selected up to the current menu position. It appears as a horizontal line above the menu options. (shown in Figure 6).

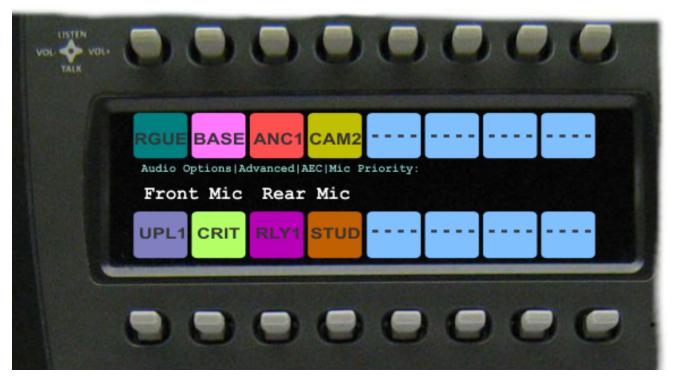


FIGURE 6. Breadcrumb Navigation

Menu Navigation and Shaft Encoder Knobs

While the keypanel is in menu mode, the **AUX Volume** shaft encoder is used to move the selection left and right. Or in the case of a single menu item with up and down control, the shaft encoder is rotated to scroll through the available selections. This is particularly convenient when setting the keypanel brightness or gain. Also, pressing the Aux Volume shaft encoder while in menu mode is the equivalent to SEL key operation. Conversely, pressing the **MAIN Volume** shaft encoder in menu mode is the equivalent to the CLR key operation. Double-tapping the AUX Volume shaft encoder, can also be used for the CLR operation.

Other navigation options:

• Press and hold the AUX/MENU shaft encoder to exit the menu.

CLR Button

The CLR button is used either as the BACK function while in MENU mode or to exit MENU mode completely.

To go back one menu level, do the following:

> Press the CLR button once.

To exit the menu, do the following:

 Press and hold the CLR button for half a second. OR
 Press the CWW key up.

Basic Intercom Key Operation

Figure 7 displays the different key positions and their meanings.



FIGURE 7. Key Function Position Explanation

To talk on the keypanel, do the following:

> Press **down** on the keypanel key you want to use.

To listen on the keypanel, do the following:

> Press **up** on the keypanel key you want to use.

Talk/Listen Indicator

The **Talk/Listen Indicator**, shown in Figure 8, displays a visual indicator when the talk and/or listen key is active. The talk and listen states of each key are represented by an LED-like horizontal bar at the bottom (talk) and top (listen) of each key.

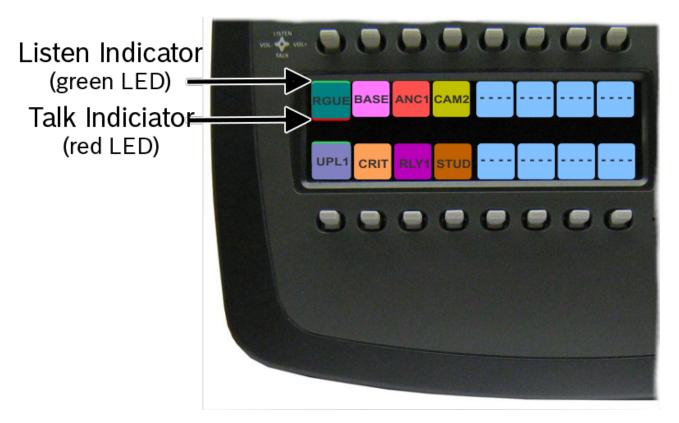


FIGURE 8. Talk/Listen Indicators

By default, the listen indicator is green and the talk indicator is red. You can change the colors of the indicator by using the Key Color Window in AZedit. For more information, see "Keypanel Color Window" on page 66.

Key Gain Adjustment

The **Key Gain Adjustment** is used to change the crosspoint listen gain on a specific key from the Matrix. This adjustment is automatically reflected in AZedit on the Crosspoint Gains window. (System|Gains|Crosspoint).

The range for this feature is +6dB to -80dB, Mute.

NOTE: Key gain can only be adjusted when the listen function listens to a PP, PL, or, an IFB with an Auto-Talk function on the listen key and a Listen Source programmed for the IFB.

To adjust the crosspoint gain using the keypanel key, do the following:

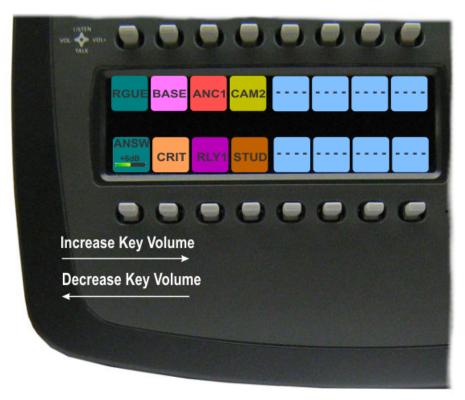
- > On the DKP-4016/4016W front panel
- Press the keypanel key to the right to increase the listen gain for the selected key assignment.
- Press the **keypanel key** to the left to decrease the listen gain for the selected key assignment. A volume status bar (-----) and the volume level, in dB, appear on the specified key in the panel display.

To adjust the crosspoint gain using the AUX Volume encoder shaft, do the following:

- 1. Lift and hold the keypanel key for which you want to adjust the crosspoint gain.
- 2. Turn the AUX Volume encoder shaft to the right to increase the gain. OR

Turn the AUX Volume encoder shaft to the left to decrease the gain.

NOTE: The volume bar shows a full width icon, but only colors the portion that represents volume. The remainder is of the bar is shown in black. This is so when the key gains are always displayed, the user will know when a key is muted, as opposed to a key that cannot have gain adjusted.

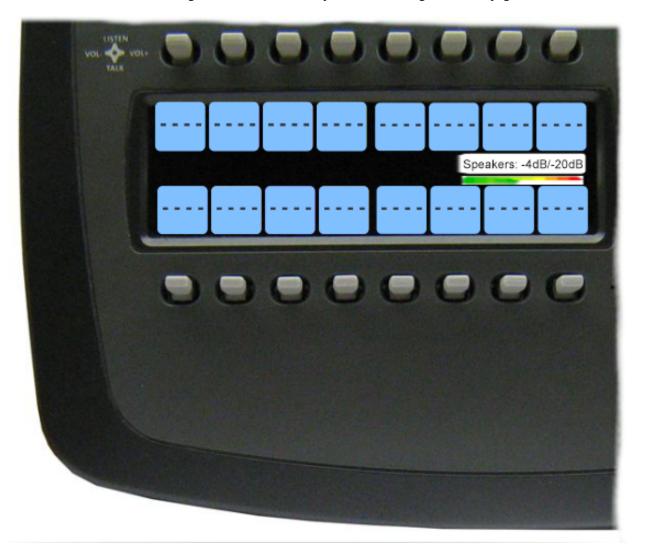


Keypanel Volume Adjustments

By default, the main volume control adjusts the Output Volume for the speaker (front/rear) or headset (left/right), whichever is currently active.

Output volume ranges from +10dB to -48dB and Mute.

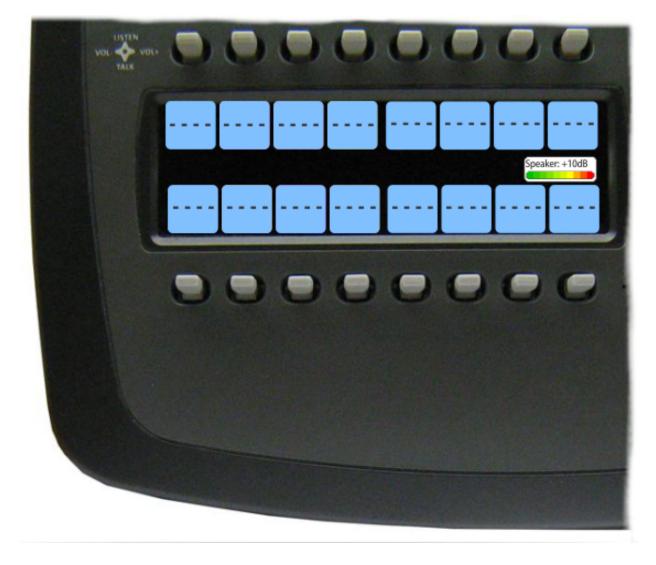
NOTE: If you gang speakers and/or headset volumes, you see a split volume bar. The front speaker or left headset is the top portion of the bar, while the bottom portion of the bar is the rear speaker or right headset volume. For more information on Gang Volumes, see "Audio Options Menu, Ganged Vols" on page 188.



To adjust output volume level, do the following:

On the DKP-4016/4016W, turn the MAIN VOLUME encoder to the right to increase the volume for the selected output. OR Turn the MAIN VOLUME encoder to the left to decrease the volume for the selected output.

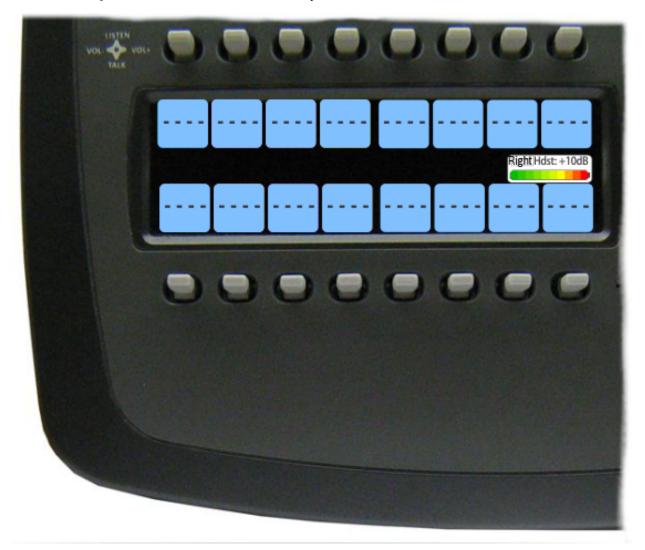
NOTE: When the MAIN VOLUME encoder is turned, the volume level bar appears in the panel display.



NOTE: You can save the volume adjustments to be power-up defaults using "Menu System, Save Config" on page 219.

To select a different output volume control, do the following:

> On the DKP-4016/4016W, push the **MAIN VOLUME encoder** once. *The main volume focus switches to the next available output.*



Aux Volume Adjustments

By default, the **Aux Volume** control knob adjusts the selected input volume, which can include Aux, Matrix Input, or OMNEO 1-8, depending on licensing and whether the connection is via OMNEO or AIO.

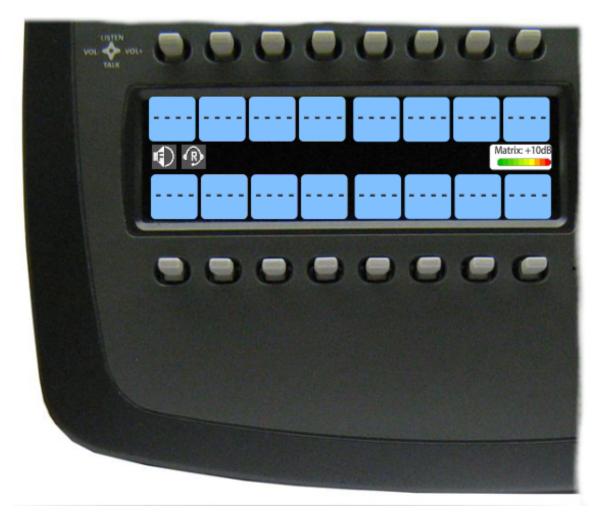
Input volume ranges from +10dB to -48dB and Mute.

To adjust listen volume level, do the following:

On the DKP-4016/4016W, turn the AUX VOLUME encoder to the right to increase the volume for the selected input.
 OR

Turn the AUX VOLUME encoder to the left to decrease the volume for the selected input.

NOTE: When the AUX VOLUME encoder is turned, the volume level bar appears in the panel display.

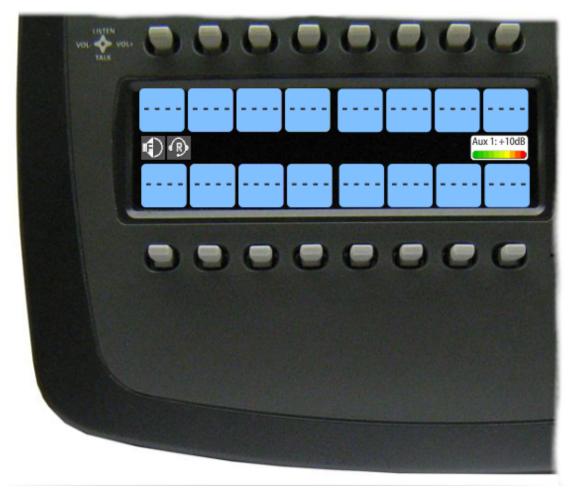


NOTE:

- You can save the volume adjustments to be power-up defaults using "Menu System, Save Config" on page 219.
- The inputs are available if they are enabled and mixed to an output.

To change the focus of the volume control, do the following:

> On the DKP-4016/4016W, push the AUX VOLUME encoder once. The aux volume focus switches to the next available input.



Priority Call Volume Control

Priority Call Volume Control is used to mark a keypanel as a priority caller. When a priority caller talks to another keypanel, a minimum crosspoint volume (configurable in AZedit) is enforced for the duration of the call to ensure the caller is heard, even if the target panel has set the listen volume to a lower volume.

In addition, a minimum volume of -6dB on the speaker and headset of the target panel is also enforced when receiving a call from a priority caller (also ensuring the caller is heard, even when the target panel's headset and speaker volume is turned down. Once the call is completed, the previous speaker, headset, and crosspoint volumes are restored when the priority caller stops calling.

When a panel is the target of a priority call, the speaker, headset, and volume display are shown with an orange background indicating a priority call is in progress.

NOTE: The volumes are never lowered by the priority call, but are raised to the minimum values for the duration of the call if they had lower values to begin with.

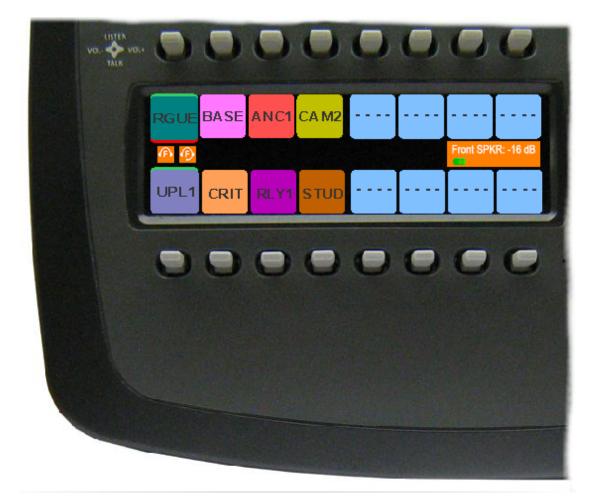


FIGURE 9. Incoming Priority Call Volume Control Keypanel

Available crosspoint values range from: +6dB, -80.0dB, and Mute.

By default, the priority call volume is set to +0.0dB.

To configure priority call volume control, do the following:

- 1. On the Keypanels/Ports screen in AZedit, select the **port** you want to set with priority call volume control.
- 2. Click the Edit button.
 - The Keypanel/Port Configuration screen appears.

panel / Port Configuration	8
etup Advanced Vox	Options
IFB Priority1Trunk IFB Priority1Trunk Priority1	 Enable Tone Keypanel Privacy TIF Dial-Out Restrict
Panel Poll Delay (ms)	 Key Labels Do Not Interrupt Priority Call Volume +0.0 dB Enable Keypanel Mirroring
4 4 -	
ОК	Cancel Apply Help

- **3.** Click the **Advanced tab**. *The Advanced Page appears.*
- 4. Select the Priority Call Volume check box.
- 5. From the Priority Call Volume drop down box, select the crosspoint volume level for the priority caller.
- 6. Click the Apply button.
- 7. Send the change to the Intercom.

Operation of Intercom Keys with Auto Functions

NOTE: Assignment of keys with auto functions is described in the programming section that follows.

Operation of keys with auto functions, is as follows:

Talk+auto followTalk and listen can be activated separately. The listen assignment listens to whatever is assigned to the talk key.

*Talk+auto listen*Both talk and listen activate when talk is activated.

Talk+auto muteListen turns off when talk is activated.

Talk+auto reciprocalListen is always on and talk may be turned on or off.

*Talk+auto table*If an IFB talk key has an auto table listen assignment, talk and listen is independently activated. The listen key listens to whatever is defined as the IFB Listen Source for the IFB assigned to the talk key.

All CallActivating this key activates all keys to the left of it, up to, but not including another all call key.

*Talk+DIM*If a point-to-point key has the DIM function as a level 2 talk assignment, activating the key causes the crosspoint levels to diminish for any other intercom ports currently listening to the same destination and are in the same DIM tables.

Operation of Intercom Keys with Options

Group Option Keys

Activating the master key in a key group activates all keys in the group according to each key's individual key assignment. Activating a slave key does not affect any other keys in the group. For more information, see "Key Options Menu, Key Groups" on page 213.

Solo Key

Activating a key with the solo option causes all other keys to turn off until the solo key is turned off. For more information, see "Key Options Menu, Solo" on page 216.

Exclusive Key

Activating a key with the exclusive options causes all other Exclusive keys to turn off when activated. Unlike the solo option, when exclusive is deactivated, the keys turn off and stay off. For more information, see "Key Options Menu, Exclusive" on page 211.

Lock Key

A key with the lock option on it is locked in the on or off position and cannot be changed until the lock is removed. For more information, see "Key Options Menu, Lock (Button Lock)" on page 214.

Chime Key

When a chime is configured on a key and a call is received, the chime is activated. You can configure length and type of chime for the key, as well. For more information, see "Key Options Menu, Chime" on page 210.

Clear Keys

Clearing keys is used to remove any key options assigned to a specific key or UPG button assignment. For more information, see "Key Options Menu, Clear" on page 210.

Latching Keys

Latching keys on a keypanel gives the user hands-free operation where keys stay active after quickly tapping the key. For more information, see "Key Options Menu, Latching" on page 213.

Operation of Intercom Talk Keys with the Speaker DIM Setting

Activating any talk key causes the speaker or headphone volume at the keypanel to diminish by the amount specified in the DIM menu item on the Service menu. For more information, see "Audio Options Menu, Dim" on page 187.

NOTE: Do not confuse this with the Talk+DIM auto function previously described. Talk+DIM affects the speaker or headphones on other keypanels when a particular talk key is activated on the keypanel. Speaker DIM affects the speaker or headphone level on the keypanel when any talk key on the keypanel is activated.

Operation of Intercom Keys assigned to TIF Ports

If a keypanel key is assigned to talk to an intercom port designated as a TIF port in AZedit, placing the key in the talk position activates the DKP-4016/4016W dialing menu. For more information, see "Telephone Interface (TIF) Operation" on page 241.

To designate an intercom port as a TIF port, do the following:

- 1. In AZedit, select the **port** you want to designate as a TIF port on the Keypanel/Port window.
- 2. Click the Edit button.
- 3. On the Advanced tab, select the **Port is TIF check box**.
- 4. Send the change to the intercom system.

User Quick Select Scrolling

User Quick Select Scrolling is a fast and easy way to call or assign a point-to-point key on the DKP-4016/4016W.

To use the User Quick Select Scroll feature to call a user, do the following:

 On the DKP-4016/4016W keypad, press the left and right arrow buttons to scroll through the list of point-to-point connections available. The selected port is highlighted in white.

NOTE:

- You can also use the left and right arrow buttons to page scroll through the list of ports available. Page scroll is useful when you have a large intercom system and you want to find a port quickly.
- You can also use the AUX Shaft encoder to quickly scroll through the list once you are in the scroll list menu.

To page scroll, do the following:

 Press the SHIFT button before pressing the left or right arrow buttons. OR
 Press the SHIFT button and then press and hold the arrow button to repeat scrolling a page at a time.

Remember, when you let go of the key, it exits SHIFT mode.

2. When the port is selected, press down on the CWW key to talk to the selected port.

Graphical Call Waiting Window

Traditionally, incoming calls have been displayed on key 16 on the keypanel, flashing to indicate an incoming call. The DKP-4016/4016W Series keypanel can keep a history of the last nine (9) callers and display them in a scrollable, graphical window above keys 15 and 16. The CWW displays three (3) calls at a time (only two (2) in Kanji) with a scroll arrow appearing if there are more than three (3) calls in the list.



FIGURE 10. Graphical Call Waiting Window

TABLE 4. Graphical CWW Call Description

Item	Description
New Call	White background
Selected Call / Not Talking	Cyan background
Selected Call / Talking	Green background
Old Call	Gray background

Graphical Call Waiting Window Operation

Use Table 4 on page 54 and Figure 10 on page 54 to understand the different states of the CWW.

Display or Hide the CWW

To **display the CWW**, do the following:

> On the DKP-4016/4016W panel, lift up on the CWW key. *The graphical call waiting window appears.*

To hide the CWW, do the following:

- > Press the CLR button. The CWW closes.
 - **NOTE:** If the CWW list is visible and not empty, it remains visible until hidden. If the CWW list is visible, but empty, it autohides after a five-second timeout.

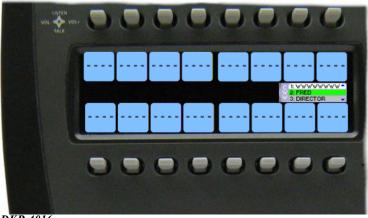
Incoming Calls

When a call is received at the DKP-4016/4016W panel, the graphical CWW list appears on the keypanel display. Unlike the keypanel talley indicators in previous keypanel versions:

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- the graphical CWW list appears on the keypanel display.
- the graphical CWW and the call flashes (tallies), rather than the CWW button.

A minimum of three (3) calls, up to a maximum of nine (9) calls can be configured to be stored in the CWW history scroll list. The most recent call is inserted at the top of the graphical CWW list (position 1) with a white background (See Figure 10 on page 54). Other items in the CWW list are shifted down, as necessary. When a new call is received, the last call in the list is dropped, unless it is highlighted in the graphical CWW. In this case, it cannot be shifted off the CWW list.



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FIGURE 11. Graphical Call Waiting Window Highlighted Call

NOTE: For more information on the CWW mode options, see "Service Menu, CWW" on page 221.

To scroll the CWW list, do the following:

> When the CWW list is visible, press the **arrow up button** or the **arrow down button**. *The highlight moves through the scroll list.*

To answer a call on the graphical CWW, do the following:

- 1. Scroll the **CWW** to highlight the call you want to answer. *The highlighted call is shown with a cyan background.*
- Press and hold the CWW key to talk to the caller.
 The highlight in the CWW list turns green and moves to the top of the list when talking with the caller.
- **3.** Release the **CWW key** to stop talking. *The call is ended. The background of the caller in the CWW list turns a light gray (if not highlighted).*

Clearing the CWW List

To clear the CWW list, do the following:

- 1. If the CWW is not visible, press the CWW key to make it visible and the call selected.
- 2. Use the up and down arrows to select the call to remove.
- 3. Press the CWW key up, to clear the selected entry.
- 4. Repeat steps 2 & 3, as necessary.

Mute the Microphone/Speaker

When the Mic Mute switch is pressed up, the corresponding microphone(s) are muted. The Mic Mute switch can be disabled or configured to operate in either Toggle or Momentary mode.

For more on Mic Mute Modes, see "Audio Options Menu, Mic Mute" on page 194.

For Mic Mute key location, see "Reference View – DKP-4016/4016W" on page 15.

Mic Select

Every mic (input) or speaker/headset (output) can be configured as Always On or Enabled, Disabled, or Switched. Only mics, speakers, or headsets set to Switched are controlled by the MIC SEL key.

For more information, see:

- "Audio Options Menu, Headset Speaker" on page 190.
- "Audio Options Menu, Panel Mic" on page 195.
- "Audio Options Menu, Headset Mic" on page 188. TABLE 5. Source Configuration Matrix and Display icons

ALWAYS ON/ENABLED	SWITCHED	DISABLED	ICON DISPLAYED
Panel Mic			
Front and Rear			₽
Front	Rear		OR 👰
Rear	Front		OR 🔮
Front		Rear	Ð
Rear		Front	P
		Front and Rear	No icons display on the keypanel.
Headset Mic			
Left and Right			ß
Left	Right		
Right	Left		
Left		Right	<u>_</u>
Right		Left	R
		Left and Right	No icons display on the keypanel.

 TABLE 5. Source Configuration Matrix and Display icons

ALWAYS ON/ENABLED	SWITCHED	DISABLED	ICON DISPLAYED
<u>e</u>			
Speaker			
Front and Rear			
Front	Rear		OR D
Rear	Front		OR D
Front		Rear	
Rear		Front	R
		Front and Rear	No icons display on the keypanel.
Headset			
Left and Right			ß
Left	Right		OR R
Right	Left		
Left		Right	9
Right		Left	R
		Left and Right	No icons display on the keypanel.

Setup Pages

Setup Pages are used to allow access to more key assignments than there are physical keys on the keypanel. This is useful for sharing a keypanel because you can use setup pages to swap between the key assignments used for each person. An alternative to Setup Pages is Panel Swap (see, "Key Options Menu, Panel Swap" on page 214). Note, with Panel Swap, your system must be configured for more keys per panel, whereas with Setup Pages, you do not need to increase the number of keys per panel, but can simply assign different setup pages to each row of keys.

You can have up to 15 setup pages per keypanel port.

NOTE: To change the Setup Pages available for ports, in AZedit go to Options|Intercom Configuration|Options tab. Change the Setup Pages per port field to the number of pages needed.

By default, eight (8) pages are available.

IMPORTANT: To add key assignments to the setup pages, see "Menu System, Key Assign Menu" on page 204.

To open and assign setup pages, do the following:

- 1. Press the PAGE key. *The Page menu appears in the display screen.*
- Press SEL to get to the graphical mode OR Enter a digit (page number).
- **3.** Tap a **key** to assign that page to the key row.

To toggle between setup pages, do the following:

- 1. Using the left and right arrows, change the **page on the current key row**.
- 2. Press the SEL key (or just wait 2 seconds to auto-select).

To change the highlighted key row in the graphical mode, do the following:

Using the FWD/BACK or UP/DOWN keys, change the highlighted key row.
 OR

Press the SHIFT + LEFT buttons or the SHIFT + RIGHT buttons to change the highlighted key row.

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Menu Passwords

As with other keypanels, the DKP-4016/4016W allows you to lock the entire menu structure or only the service menu. This is implemented through AZedit (System|Miscellaneous|Keypanel Menu Password. For more information, see the AZedit user manual (p/n F01U239453).

NOTE: Only numerical passwords are allowed.

To enter a menu password at the password prompt, do the following:

Press the MENU button.
 ? appears in the keypanel display screen.

Voice Messaging (Audio Package Only)

- 2. Using the keypad, enter the **password** for the menu.
- **3.** Press the **SEL key**. *When the password is completely entered correctly, the menu appears.*

NOTE:

- Use the CLR button, double-click the AUX shaft encoder, or single-click the MAIN shaft encoder to erase the last digit.
- If there are no digits, the CLR button or double-clicking either the AUX shaft encoder or MAIN shaft encoder exits the menu.

IMPORTANT:	If you are upgrading your DKP-4016 from v1.1.1 or earlier to version 1.2.0 or later, you must do the following:
	• Download the Firmware
	• Download the License, if purchased
	• Download the Voice Mail Chimes (downloaded with vm-chimes.mot)
	Download the Voice Mail Icons (downloaded with vm-icons.mot)
	For information on downloading firmware, see "Download Firmware to the DKP-4016/4016W From AZedit" on page 149.
	Take note, the VM chimes and VM icons are .mot files and should be treated as firmware downloads, not Chimes o Icons.
	Panels shipped from the factory with v1.2.0 or higher, include vm chimes and vm icons.

VM (Voice Messaging) allows a caller to leave an audio message at a keypanel where the keypanel user has stepped away from or is currently busy and cannot answer a call.

There are two (2) modes of voice messaging; AFK and Auto-Record.

AFK (Away From Keypanel) mode indicates the keypanel user is not available or is away from the keypanel. AFK enables callers to leave a message for the user to listen to upon return to their keypanel.

Auto-Record mode indicates the last 30 seconds of audio is always being recorded. When Auto-Record is active it does not matter if AFK is enabled or not, the keypanel constantly records the last 30 seconds of audio. On the keypanel in which Auto-Record is enabled, the record icon appears in the keypanel display window (see "Voice Messaging Icons" on page 60). Unlike AFK, where the recording icon is flashing while a message is being recorded, the icon is constant.

To configure how you want voice messaging to work, see "Audio Options Menu, VM Options (Audio Package Only)" on page 198

Up to seven (7) voice messages can be recorded, with each voice messages being up to 30 seconds long.

60 Basic Operation

Voice Messaging Icons

Icon	Description	Operation
AFK	AFK (Away From Keypanel)	This icon appears in the keypanel display when the keypanel is put into AFK mode.
P	Keypanel in AFK Mode	This icon appears on the callers key when the keypanel being called is in AFK mode. The caller receives a flashing dialog balloon and a chime, alerting them to the AFK status of the keypanel they are trying to call. The caller can then choose to leave a message on that keypanel.
	Record in AFK Mode	This icon appears on the callers key when a message is being left at another keypanel that is in AFK mode, the record icon appears to let the user know they are recording a message.
REC	Auto-Record	This icon appears in the keypanel display when the keypanel is in AFK mode and someone is leaving a message or Auto-Record is set to Rolling Buffer. This means the keypanel is constantly recording the last 30 seconds of audio, regardless of the keypanel state. This icon also appears flashing on a keypanel that is AFK and receiving a message.
	Stop	This icon also appears fulshing on a keypanet that is AFK and receiving a message. The stop icon appears on the callers key when the VM recording is ended.
	Play/Pause	This icon appears in the VM menu and is used to start playing a voice message.
•	Fast Forward	This icon appears in the VM menu and is used to fast forward through a voice message.
••	Rewind	This icon appears in the VM menu and is used to rewind through a voice message.
1	Voice Message	This icon appears in the keypanel display when a voice message is left on the keypanel. The red circle in the lower right corner of the icon shows how many messages have been left. Up to seven (7) messages can be stored at a given time.
NOTE: Th	e following icons appear on	the panel trying to leave a message.
X	Target is not present	This icon appears when you try to leave a VM for a panel that is not connected.
X	Target is not AFK	This icon appears when a user tries to leave a voice message when the keypanel is not in AFK mode. The red X blinks on the yellow background for five (5) seconds.
X	Target is busy	This icon appears when the keypanel being called is busy, such as already recording a message, there is no recording room left, or the user is in the VM menu.

To toggle on AFK mode, do the following:

> On the keypanel keypad, press **SHIFT+AFK**. *The AFK icon appears in the panel display.*



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To toggle off AFK mode, do the following:

> On the keypanel keypad, press SHIFT+AFK. The keypanel deactivates AFK mode.

To leave a message, do the following:

- On the keypanel, press the key assigned to the keypanel you want to call. If AFK is activated, a flashing dialog balloon icon appears and a chime sounds alerting you of the AFK status.
- 2. On the keypad, press the Shift key and the keypanel key you are trying to contact. A flashing red dot on a white background (record) icon appears and a chime sounds. The recording begins. A countdown time appears on the key, advising of the time left to record.
- 3. Leave a message for the keypanel user you are trying to contact.

NOTE: Messages are limited to 30 seconds.

4. When you are finished leaving a message, release the **keypanel key**. *The message is complete. A black square with a white background (stop recording) icon appears and a chime is heard. This icon disappears after three (3) seconds.*

NOTE:

• A cassette tape icon appears on the keypanel where the message was left, alerting the user of the voice message.

Voice Messages Menu

The **Voice Messages** menu is used to display, retrieve, and listen to voice messages. When a keypanel receives and stores a VM or the keypanel has Rolling Buffer enabled, the voice message menu is accessible. From the Voice Message menu you can scroll through a list of available messages – most recent first – showing the caller, the duration of the message and how long ago it was left. See figure Figure 13.

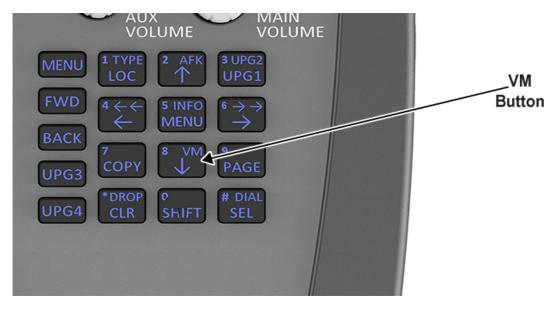


FIGURE 12. VM Button

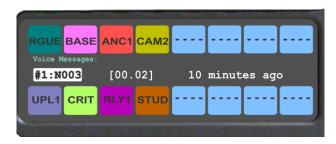


FIGURE 13. Voice Message Menu

To enter the Voice Messages menu, do the following:

- On the keypad, press the SHIFT+VM/8 buttons. A scroll list of voice messages appear in the keypanel display window.
- 2. Using the up and down arrow keys, scroll to the **desired voice message**. OR

Using the AUX VOL shaft encoder, scroll to the desired voice message.

VM Playback Menu

The VM Playback menu is used to play and listen to voice messages you receive on the keypanel.

RGUE BASE ANCI CAM2			
#1:N003 [00.02]	◄		
UPL1 CRIT RLY STUD			
		No. State	
Caller Caller Length			
# Alpha of Message			

FIGURE 14. VM Playback Menu

To listen to a message, do the following:

 Using the up and down arrow keys, scroll to the desired voice message. OR

Using the AUX VOL shaft encoder, scroll to the desired voice message.

- 2. Press the SEL button. Playback icons appear in the keypanel display window. By default, the PLAY button is selected.
- 3. Press the SEL button. *The voice message is played.*

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To rewind or fast forward a message, do the following:

> Press and hold the rewind (left arrow) key to rewind a message

Press and hold the **fast forward (right arrow) key** to fast forward the message.

NOTE:

OR

- Tapping the fast forward or rewind keys moves the message 1 second forward or 1 second backward.
- Pressing the SEL button toggles Play/Pause

To pause the message, do the following:

- 1. Press the SEL button. Playback icons appear in the keypanel display window.
- 2. Press the SEL button. *The message begins to play. A pause icon appears.*
- 3. Press the SEL button, again. *The message is paused.*

To return a call to the caller who left the voice message, do the following:

NOTE: This action can be done from both the Voice Messages and VM Playback menus.

> With a voice message highlighted, press down on the CWW key. The person who initially left the message is called back.

NOTE: When pressing the CWW talk key, the menu highlight moves to the caller alpha and is shown in green.

To delete a voice message from the message queue, do the following:

> With the message highlighted you want to delete, press the SHIFT+CLR buttons. *The message is deleted.*

User Programmable Buttons

A **UPG** (User Programmable Button) gives you the option to assign frequently used menu items to a single button on the keypanel, eliminating the need to navigate through the menu structure. Not all menu items can be programmed to the UPG buttons, such as any assignment group menu, any TIF menu items, or scrolling menu items. Basically, any menu that requires context or history cannot be saved. If a menu item cannot be saved, a prompt appears in the panel display showing *Cannot save this menu position*.

NOTE: You can program a UPG key to activate the screen saver option on the keypanel. For more information, see "To activate the screen saver from a UPG key" on page 65.

The UPG keys can also be used to activate relays. When a relay is assigned to the button, and while the keypanel is not in menu mode, pressing the UPG key activates the relay for as long as the UPG button is held down. Once the button is released, the relay becomes inactive.

NOTE: The UPG buttons can be cleared using Key Options|Clear from the keypanel menu.

IMPORTANT: On the DKP-4016/4016W keypanel there are nine (9) UPG buttons available – UPG1 through 4 are displayed on the keypad, while UPG 5 through 9 are available as the SHIFT version of the left column buttons (MENU, FWD, BACK, UPG3, and UPG4).

To assign a menu item to a UPG button on the DKP-4016/4016W, do the following:

- 1. On the DKP-4016/4016W keypad, press the **MENU button**. *The Information menu appears*.
- 2. Using the arrow buttons, navigate to the menu item you want to assign to a UPG button.
- **3.** Press and hold the **UPG button** for two (2) seconds. *Menu position saved appears in the panel display.*

To assign a menu item to a UPG button using the SHIFT menu, do the following:

- 1. On the keypad, press the **MENU button**. *The Information menu appears*.
- 2. Using the arrow buttons, navigate to the menu item you want to assign to a UPG button.
- **3.** Press the **SHIFT button** and then hold the **UPG button** for two (2) seconds. *Menu position saved appears in the panel display.*

To assign a relay to a UPG button, do the following:

- 1. On the DKP-4016/4016W keypad, press the **MENU button**. *The Information menu appears*.
- 2. From the Information menu, using the arrow buttons, select Service.
- **3.** Press the **SEL button**. *The Service menu appears*.
- 4. Using the arrow buttons, select Local GPIO.
- Press the SEL button. GPIO Inputs and GPIO Outputs appears in the panel display.
- 6. Using the arrow buttons, select GPIO Outputs.
- Press the SEL button. Relay 1 and Relay 2 appear in the panel display.
- 8. Using the arrow buttons, select the **Relay 1**, or **Relay 2**.

9. Press the **SEL button**. *Not Assigned, Talk Key, and UPG 1 through UPG 9 appears in the panel display.*

- **10.** Using the arrow buttons, select a **UPG button**. *The relay is assigned to the desired UPG button.*
 - **NOTE:** Once a relay is programmed to the button, and the keypanel is not in menu mode, pressing the UPG button activates the assigned relay until the button is released.

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To activate the screen saver from a UPG button, do the following:

- 1. On the DKP-4016/4016W keypad, press the **MENU button**. *The Information menu appears*.
- 2. Using the arrow buttons, select Service.
- **3.** Press the **SEL button**. *The Service menu appears*.
- 4. Using the arrow buttons, select Scrn Saver. *Activate, Delay and Mode appear.*
- 5. Using the arrow buttons, select Activate.
- 6. Press the SEL button. *The screen saver activates on the keypanel.*
- Press and hold the UPG button you want to assign this option to for two (2) seconds. Menu position saved appears in the panel display and the screen saver feature is assigned to the UPG button.

Other Common UPG Assignments available:

- UPG Button to trigger panel swap, see "Key Options Menu, Panel Swap" on page 214.
- UPG Buttons to turn keys off with a single press, see "Key Options Menu, Turn Off" on page 217.
- UPG Buttons to DIAL or DROP a TIF, see "Dialing and Hanging Up" on page 241.

Keypanel Color Window

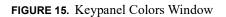
The **Keypanel Color** window, shown in Figure 15, is used to change the text and background colors assigned to function types, key assignments, and talk/listen indications. You can modify local intercom key assignments and function type colors, as well as remote intercom function type colors, giving you the flexibility to distinguish different systems through the use of color patterns.

The Keypanel Color window is only available when the following requirements are met:

- •running AZedit version 3.7.0 or later.
- running MCII-e version 2.1.0 or later.

NOTE: Key colors are associated with assignments and assignment types, not the physical keys they are assigned to.

AZedit - [Untitled] - Keypanel Colors						
	tus <u>O</u> ptions <u>L</u> ogging <u>H</u> elp					
	IFBs IFBs Priorities Lstn Src Lstn Dest IFB					
🗑 🖶 🗟 🅞 🛎 😊 🔒 🐚 🔂 👘 🛠 🛠	😫 😫 💿 📾 F+ F- 😘 🚏 🗈 🏨 🔽					
Function Types Key Assignments Assignment Groups M	liscellaneous Colors					
Recent Colors Image: Colors <t< td=""></t<>						
Current Color	Function Type Color					
	Null					
	Special Functions AC					
	Ports N001					
	Party Lines PL01					
	IFBs IF01					
	Special Lists SL01					
	GPI Outputs RY01					
Hue: 80 🔹 Red: 0 🔹	ISOs ISO1					
Sat 240 🐳 Green: 255 🐳	UPL Resources 0001					
Lum: 120 🔹 Blue: 0 🔹	IFB Special Lists IL01					
Apply to Background Default Background Only show non-default background cold Apply to Text Default Text						



Function Types Page

The Function Types page, shown in Figure 15, is used to change the default colors assigned to the various keypanel function types.

Select Intercom Drop Down Menu

The **Select Intercom** drop down menu is used to select the intercom system (*local* or *remote*) in which you want to change the color of the key function types.

Recent Colors Group Box

The Recent Colors group box displays the 18 most recently used colors.

Current Color Group Box

The **Current Color** group box displays the currently selected color (current color cell), whether from the color palette or recent colors. Also, using the Hue, Sat, Lum, Red, Green, and/or Blue spin boxes, you can adjust the selected color to create a unique color for the function type.

NOTE: You can drag and drop colors from the color picker or recent color check boxes, and drop it on the background or text area of one (1) of the cells in the Color Grid (Figure 16 on page 68). You can also select a color in the Color Grid and drop and drag it to the Current Color Cell field. By holding down the Ctrl key on the keyboard, you can select multiple cells in the Color Grid, thus allowing you to apply color to multiple key assignments.

Apply To Background Button

The Apply to Background button is used to apply the color selection to the background.

Default Background Button

The Default Background button is used to reset the background color to the default color.

Apply To Text Button

The Apply to Text button is used to apply the color selection to the text of the type of assignment.

Default Text Button

The Default Text button is used to reset the text color to the default color of the type of assignment.

Color Grid

Function Type	Color
Null	
Special Functions	AC
Ports	N001
Party Lines	PL01
IFBs	IF01
Special Lists	SL01
GPI Outputs	RY01
ISOs	1501
UPL Resources	V001
IFB Special Lists	IL01

FIGURE 16. Color Grid

Function Type Column

The Function Type column displays the different function types you can make key color changes for.

Available selections are: Null, Special Functions, Ports, Party Lines, IFBs, Special Lists, GPI Outputs, ISOs, UPL Resources, and IFB Special Lists.

Color Column

The Color column displays the current text and background colors assigned to the function type.

NOTE: You must select the current color box next to the function type you want to change the color for. When selected, a thick black line appears around the box.

Only Show Non-Default Background Colors Check Box

The **Only Show Non-Default Background Colors** check box, if selected, shows colors only for function types set to a color other than their default color.

Key Assignment Page

The **Key Assignment** page, shown in Figure 17, is used to change the colors assigned to the various assignment types. This means you can assign different colors to the individual function type resources. For example, you can change the display color for the party line assignment number 003.

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nction Types Key Assignments Assignment Groups N			
	Select Function	Select Function Type	
	Ports	•	
Current Color	Port	∠ Color	^
	001	N001	
	002	N002	
	003	NOO3	
	004	N004	
	005	N005	
	006	N006	
	007	N007	
Hue: 80 ÷ Red: 0 ÷	008	NOO8	
Sat 240 ÷ Green: 255 ÷	009		
Lum: 120 ÷ Blue: 0 ÷	010	N010	
	011	N011	
Apply to Background Default Background	012	N012	
Apply to Text Default Text	012	N013	
			•

FIGURE 17. Key Assignments Page

Select Function Type Drop Down Menu

The Select Function Type drop down menu is used to select the function type you want to display the function number resources for.

70 Basic Operation

Available selections for this field are: Ports, Party Lines, IFBs, Special Lists, GPI Outputs, ISOs, UPL Resources, and IFB Special Lists.

Function Number Column

The Function Number column displays the function numbers (resources available) you can modify the color of the assigned key for.

NOTE: Key colors are associated with assignment types, not the keys they are assigned to.

Color Column

The Color column displays the current color assigned to the function number.

NOTE: You must select the current color box next to the function number you want to change the color for. When selected, a thick black line appears around the box indicating it is selected.

Assignment Groups Page

The Assignment Groups page, shown in Figure 18, is used to change the colors of the members of the different assignment groups.

Online Authentication Edit View System Alphas Statu	s <u>O</u> ptions <u>L</u> ogging <u>H</u>	<u>H</u> elp		
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nction Types Key Assignments Assignment Groups Mis	cellaneous Colors			
Decent Only 1	Oracia Alaba			
	Group—Alpha—			
	1 AG01	_		
Current Color	Intercom	Function Type	Function Number	Color
↓ Hue: 80 ÷ Red: 0 ÷				
Sat 240 🕂 Green: 255 🕂				
Lum: 120 🔹 Blue: 0 🔹				
Apply to Background				
Apply to Text Default Text				

FIGURE 18. Assignments Groups Page

Select Assignment Group Drop Down Menu

The **Select Assignment Group** drop down menu is used to select the assignment group whose members you want to modify the key colors for.

Intercom Column

The Intercom column displays the name of the intercom where the group resides.

Function Type Column

The Function Type column displays the type function assigned to the group.

Function Number Column

The **Function Number** column displays the number of the assignment group you select from the Assignment Group drop down menu. For more information, see "Select Assignment Group Drop Down Menu" on page 71.

Color Column

The Color column is used to select the assignment group member you want to modify the associated color with.

To select the color column, do the following:

> Click the **color box** next to the assignment group member. *A thick, black outline appears around the selected color box.*

Miscellaneous Colors Page

The **Miscellaneous Colors** page, shown in Figure 19, is used to change the colors of the talk and listen indicators seen on the DKP-4016/4016W series keypanel when talk and/or listen is activated.

For more information on Talk and Listen indicators, "Talk/Listen Indicator" on page 42.

🧧 AZedit - [Untitled] - Keypa	anel Colors								
<u>File</u> Online Authentication	on <u>E</u> dit <u>V</u> ie	ew <u>S</u> ystem	<u>A</u> lphas	S <u>t</u> atus	<u>O</u> ptions	<u>L</u> ogging	<u>H</u> elp		
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	Hue: 80	÷Re	ed: 0	3					
	Sat 240	÷ Gree	en: 255	3					
	Lum: 120	÷ Blu	ie: 0	3					
<u>A</u> pply to Backgr	ound	<u>D</u> efault Ba	ckground						
Apply to Tex	d	D <u>e</u> fault	t Text						

FIGURE 19. Miscellaneous Colors Page

Enhanced Tallies

Enhanced Tallies allow you to configure, using AZedit, how tallies look on the keypanel. You are able to change how an incoming calls, PLs, IFBs, etc look on the keypanel. By default, an incoming call tally is indicated by a flashing alpha. With enhanced tallies, you can configure the text and background colors to trade-off, simulating a flashing keypanel. You can also configure a chime to be played when an incoming call is received, as well as an icon to appear announcing the call. For more information, see Table 8, "Tally Icon Descriptions," on page 80.

Requirements

AZedit version 5.0.0 or later

MCII-e version 3.2.0 or later

To open the Enhanced Tallies window, do the following:

- 1. Open AZedit.
- 2. From the menu bar, select System|Miscellaneous|Enhanced Tallies. *The Enhanced Tallies window appears.*

AZedit - [ONLINE] -	ntication Edit View	System Alphas St	atus Options Logg	ing Help			-		
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🚈 PAT 🗋	New 🗃 Open 👘	Aerge 🔲 Save 📱	Save As 🛛 🖶 Partial	Print A Preview	🚭 Setup 🖋 Con	mect 🖬 Load 🖻	Send 🧖 Activate 🖇		
Tally #	Mode	Description	Duration	Characteristics	Chime #	Duration	Legacy Action		
1	Flash Text 🔹	Incoming call	10 seconds	Text	<none></none>		Incoming Call Tally		
2	No Tally	Extend call	Indefinite	Text	<none></none>		In Use Tally		
3	Flash Text Show Icon	Trunk in use	Indefinite	Text	<none></none>		In Use Tally		
4	Flash Text	Trunk busy	Indefinite	Text	<none></none>		Busy Tally		
5	Flash Text	IFB in use	Indefinite	Text	<none></none>		In Use Tally		
6	Flash Text	IFB busy	Indefinite	Text	<none></none>		Busy Tally		
7	Flash Text	PL in use	10 seconds	Text	<none></none>		Incoming Call Tally		
8	Flash Text	General in-use	Indefinite	Text	<none></none>		In Use Tally		
9	Flash Text	TIF off-hook	Indefinite	Text	<none></none>		In Use Tally		
10	Flash Text	TIF ringing	Indefinite	Text	<none></none>		Busy Tally		
11	No Tally	Tally #11			<none></none>				
12	No Tally	Tally #12			<none></none>				
13	No Tally	Tally #13			<none></none>				
14	No Tally	Tally #14			<none></none>				
15	No Tally	Tally #15			<none></none>				
16	No Tally	Tally #16			<none></none>				
17	No Tally	Tally #17			<none></none>				
18	No Tally	Tally #18			<none></none>				
19	No Tally	Tally #19			<none></none>				
20	No Tally	Tally #20			<none></none>				

TABLE 6. Enhanced Tallies Window

Tally # Column

The **Tally** # column displays the tally number. This number is associated with the tally description and is used in creating UPL statements. AZedit supports 20 different tallies, however, the first 10 are predefined.

 TABLE 7. Predefined Tallies

Tally #	Description
1	Incoming Call
2	Extend Call
3	Trunk in Use
4	Trunk Busy
5	IFB in Use
6	IFB Busy
7	PL in Use
8	General In Use
9	TIF Off-Hook
10	TIF Ringing

Mode Column

The Mode column is used to select the type of tally to use.

There are three (3) options available:

No Tally

Flash TextFlashes text for a user-determined (duration column) amount of time.

Flash IconShows an icon for a user determined (duration column) amount of time. For more information, see Table 8, "Tally Icon Descriptions," on page 80.

Description Column

The Description column is used to enter a description of the tally you create.

IMPORTANT: It is recommended you do not change the pre-defined tallies descriptions. Changing the description does not change pre-defined purpose of the tally. For example, if you change the description for IFB Busy to Trunk Busy, it still activates when an IFB is busy and may be confusing to users.

To change the Description column, do the following:

- 1. In the Description column, double-click the **tally description** you want to change. *The selected Description cell becomes active.*
- 2. In the cell, enter the tally description you want.

Duration Column

The **Duration** column is used to select the duration the tally is activated for.

Available options for this field are: Indefinite and one (1) second through five (5) minutes.

To set the tally duration, do the following:

- In the Duration column, select the duration of the tally you want to change. A drop down menu appears.
- 2. From the drop down menu, select the desired duration.

Characteristics Column

The **Characteristics** column is used to configure the characteristics or behavior of the visual tally. Depending on what you select in the Mode column determines what is seen in this column. From the Characteristics column, you can access a configuration window for either Text or Icon selections. If No Tally is selected in the Mode column, the Characteristics column is blank.

To open the Text configuration window, do the following:

- 1. In the Characteristics column, click the **cell with the word Text**. *The cell animates the tally as defined (for example, flashing text with color or animating icons) and an ellipsis button appears in the cell.*
- 2. Click the Ellipsis button. The Flash Text Characteristics window appears. For more information, see "Flash Text Characteristics Window" on page 77.

To open the Icon configuration window, do the following:

- 1. In the Characteristics column, click the **cell with word Icon**. *An ellipsis button appears in the cell next to the word Icon.*
- 2. Click the Ellipsis button. The Show Icon Characteristics window appears. For more information, see "Show Icon Characteristics Window" on page 79.

Chime # Column

The **Chime #** column is used to select the type of chime to play when a tally is activated.

Available options for this field are: System Chime #1 through System Chime #12. User Chime #1 through #4 appear if the Audio Package is installed.

To set the chime, do the following:

- In the Chime # column, select the chime cell you want to change. A drop down menu appears.
- 2. From the drop down menu, select the **desired chime**.

Duration Column

The **Duration** column is used to select the length of time to for the chime to last.

Available options for this field are: One-shot and one (1) second through five (5) minutes.

To set the duration of the chime, do the following:

- 1. In the Duration column, select the **duration of the tally** you want to change. *A drop down menu appears*.
- 2. From the drop down menu, select the **desired duration**.

Legacy Action Column

The Legacy Action column is used to select how the tally descriptions is implemented on keypanels that do not support Enhanced Tallies.

Available options are:

No Tally Incoming Call Tally In-Use Tally Busy Tally

To select a legacy action, do the following:

- Click in the Legacy Action column cell desired. A drop down arrow appears.
- 2. From the Legacy Action drop down menu, select desired action.

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0 🖻 🖷 🖬 🖨 🖉 👘	a x <u>s</u> c / %	🖻 💼 Q р • F •	🔶 🗰 🗠 - 🌭 🛷 😢 🄇			
Tally #	Description	Duration	Characteristics	Chime #	Duration	Legacy Action
1	Incoming call	10 seconds	Text	<none></none>		Incoming Call Tall
2	Extend call	Indefinite	Text	<none></none>		No Tally
-						Incoming Call Tall
3	Trunk in use	Indefinite	Text	<none></none>		In Use Tally
4	Trunk busy	Indefinite	Text	<none></none>		Busy Tally

Flash Text Characteristics Window

The Flash Text Characteristics window is used to configure the way a text tally behaves for the selected tally.

Flash Text Characteristics
Swap Foreground / Background Colors
-Flash State
Enable Text Color
Enable Background Color
Normal State
Enable Text Color
Enable Background Color
Enable Alternate Text **
Duty Cycle Fast - 50%
OK Cancel

FIGURE 20. Flash Text Characteristics Window

Swap Foreground / Background Colors Check Box

The **Swap Foreground** / **Background Colors** check box indicates the foreground color swaps with the background color creating a blinking effect on the keypanel display.

Flash State Group Box

The Flash State group box is used to assign text and background colors used when a tally state is flashing.

Enable Text Color Check Box

The **Enable Text Color** check box enables the Selected Color cell and Browse button. This means you can modify the color of the Text displayed.

Selected Color Cell and Ellipsis Button

The Selected Color cell displays the currently selected color of the text.

The Ellipsis button opens the Select Color window where you can assign a different color to the text.

Enable Background Color Check Box

The **Enable Background Color** check box enables the Selected Color cell and Browse button. This means you can modify the color of the Background displayed.

Selected Color Cell and Ellipsis Button

The Selected Color cell displays the currently selected color of the background.

The Ellipsis button opens the Select Color window where you can assign a different color to the background.

Normal State Group Box

The **Normal State** group box is used when the tally is active and is not in the flash state. If there is no tally active, then the colors are whatever is defined for the assignment in the intercom.

Enable Text Color Check Box

The **Enable Text Color** check box enables the Selected Color cell and Browse button. This means you can modify the color of the Text displayed.

Selected Color Cell and Ellipsis Button

The Selected Color cell displays the currently selected color of the text.

The Ellipsis button opens the Select Color window where you can assign a different color to the text.

Enable Background Color Check Box

The **Enable Background Color** check box enables the Selected Color cell and Browse button. This means you can modify the color of the Background displayed.

Selected Color Cell and Ellipsis Button

The Selected Color cell displays the currently selected color of the background.

The Ellipsis button opens the Select Color window where you can assign a different color to the background.

Enable Alternate Text Check Box and Entry Field

The Enable Alternate Text check box and entry field is used to enter alternate text or characters that appears intermittently with the existing tally text.

This field can contain up to four (4) characters.

Duty Cycle Drop Down Menu

The Duty Cycle drop down menu is used to select the rate the tally flashes.

Available options for this menu are:

On Solid There is no flash

Slow 25%The alternate text appears for 25% of the flash period (1/4 of a second), while the normal mode appears for 75% of the flash period (3/4 of a second)

Slow 50% The flash and normal mode appear for 50% of the flash period (1/2 second each)

*Fast 50%*The flash and the normal mode appear for 50% of the flash period in alternating pattern (1/4 second flash, 1/4 second normal mode, 1/4 second flash, 1/4 second normal mode)

Fast 75% The flash appears for 75% (3/4 second), while the existing text appears for 25% (1/4 of a second) of the flash period.

NOTE: The flash period is one second.

OK Button

The OK button is used to accept/apply the changes and close the window.

Cancel Button

The Cancel button is used to reject the changes and close the window.

Show Icon Characteristics Window

The **Show Icon Characteristics** window is used to configure which icon to display during a tally event and the rate at which it flashes during the event.

5	? ×
none	•
On Solid	•
OK	Cancel
	none On Solid

FIGURE 21. Show Icon Characteristic Window

Icon Drop Down Menu

The **Icon** drop down menu is used to select the icon you desire. See "These icons are the default icons sent with the keypanel. These icons can be used for any purpose. Not all the icons are used as defaults. The descriptions in Table 8 are just suggested uses." on page 80

Duty Cycle Drop Down Menu

The **Duty Cycle** drop down menu is used to select the rate the icon flashes.

Available options for this menu are:

On Solid There is no flash

Slow 25%The alternate text appears for 25% of the flash period (1/4 of a second), while the normal mode appears for 75% of the flash period (3/4 of a second)

*Slow 50%*The flash and normal mode appear for 50% of the flash period (1/2 second each)

*Fast 50%*The flash and the normal mode appear for 50% of the flash period in alternating pattern (1/4 second flash, 1/4 second normal mode, 1/4 second flash, 1/4 second normal mode)

Fast 75% The flash appears for 75% (3/4 second), while the existing text appears for 25% (1/4 of a second) of the flash period *Animate4*-frame animation, each frame displays for 25% of the flash period.

NOTE: The flash period is one second.

OK Button

The **OK** button is used to accept/apply the changes and close the window.

Cancel Button

The **Cancel** button is used to reject the changes and close the window.

Enhanced Tally Icons

Enhanced Tally Icons, shown in Table 8, are used to visually alert keypanel users of different events occurring on the keypanel and in the Matrix system. The keypanel ships with these icons built-in by default. However, you can download new icons to the panel using AZedit.

NOTE: These icons are the default icons sent with the keypanel. These icons can be used for any purpose. Not all the icons are used as defaults. The descriptions in Table 8 are just suggested uses.

TABLE 8. Tally Icon Descriptions

Icon	Icon Name	Description
•	Target	Incoming Call (animation supported) – A call is coming into the keypanel and the animation toggles the target every half second. Extended Call (animation not supported)– The extended call tally is generated when the key is on for a predetermined amount of time. In English intercoms, five (5) seconds pass before the tally
		begins, while in Japanese intercoms, two (2) seconds must pass
*	Red Star	Trunk In-Use (animation not supported) Trunk Busy (animation supported) – The trunk is busy. The animation toggles the star on/off every quarter of a second.
*	Black Star	IFB/ISO In Use (animation not supported) IFB/ISO Busy (animated) - The IFB/ISO is busy. The animation rotates the start on/off every quarter of a second.
2	Orange Wave	PL In-Use (animation not supported)
*	Gray Gear	General In-Use (animation not supported) - Used in Japanese intercoms. This tally is used to show when other keypanels are doing an action on the keypanel. In a Japanese intercom, if your panel is in-use (i.e., you turn on a talk key to anybody), and I have your assignment on my keypanel, the assignment on my keypanel displays the General In-Use tally, even though we are not talking to each other.
0	Red Phone	TIF Ringing (animation supported) - The handset vibrates in the animation.
0	Yellow Phone	TIF Offhook (animation supported) - The TIF key is active. The phone slow flashes every half second.

TABLE 8. Tally Icon Descriptions	
----------------------------------	--

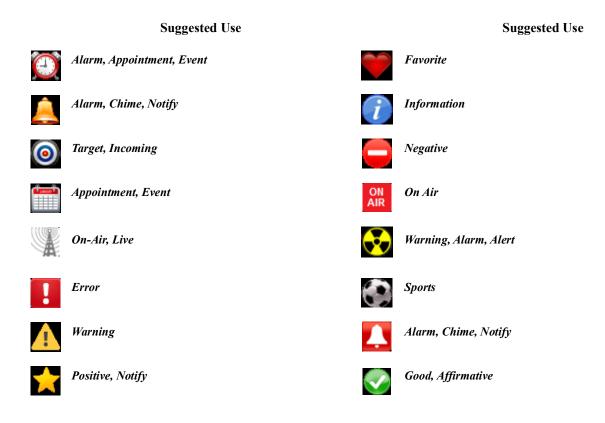
Icon	Icon Name	Description
⚠	Exclamation	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
V	Heart	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
0	Question	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
PU	Flag	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
2	Person	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
P	Link	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
	Car	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
4	Lightening Bolt	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
A	House	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
Ċ,	Handset	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
٨	Lock	Available for UPL Tally (animation not supported)
1	Speaker	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
	Play	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
P	Message	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.
	Red Circle	Available for UPL Tally (animation supported) - The animation is a slow flash every half second.

Panel Tally

Panel Tally is used to notify a keypanel user of an event not specifically belonging to a key; for example, a blinking icon appears when a newscast is on air. Panel tallies are controlled through the use of UPL statements. Multiple UPL statements can be configured, but only one (1) icon displays at a time. Lower numbered icons take priority.

NOTE: The keypanel ships with these icons built-in by default. However, you can download new icons to the panel using AZedit.

Available panel tally icons are:



Create and Download New Icons

IMPORTANT: AZedit V5.2.0 or later include the panel and key icon files.

Key Overlay Icons

An **Overlay Icon** is an icon that lies on top of a key in the keypanel display screen. The keypanel supports and is shipped with 32 icons. However, you can create your own icons.

A single icon is 16 x 16 pixels. AZedit uses bitmaps rather than icon (.ico) files. This is so users can use the system tool Paint to create their icons, instead of a specialized icon editor. 32 icons are supported for key overlays, so the bitmap must be 512 pixels wide (16 pixels x 32 icons). Animation of icons is also supported (4 frames), so the bitmap is 64 pixels tall (16 pixel icons x 4 rows of icons), where each column of icons contains four (4) images for animation of the icon, and each row of icons represent stage 1–4 of the animation for each icon. Figure 22, shows a 512x64 pixel bitmap (a table of 32x4 icons).

IMPORTANT: The following icons are built into the panel. This file is shipped with AZedit so it can be easily copied and modified by the user to create their own icons.

By downloading your own icons, you are replacing the ones built into the keypanel. Retain a copy of the icons shipped with AZedit, in case you want to reuse the default icons.

0	I	•	[*	[*	ł	*]	*	2	[*	Įz	2ľ	<u>8</u>)	۵	۲	0	P	2	P	۶	A	l C	8	٩	4	÷	#	¥	æ	4)	►	
0	I	0	[×	Γ	I	¥)		2	Ĭ ≭	[2	۶Ĭ	2)	Δ	۲	0	P	2	P	Z	A	र	8		4	+	#	×	Â	4)		
	I	0	[*	[*	ł	¥]	*	2	[≭		3ľ			С	С	\Box	С			С	С	8	٩	4	÷	#	×	A			
	I	0	×	Γ	ŀ	¥)		2	[*	[2	٩Ĭ				С		С			С		8		4	÷	#	×	A			

FIGURE 22. 512 x 64 pixel bitmap of key overlay icons

AZedit accepts a bitmap of narrower width (as long as it is a multiple of 16). This is done by extending the bitmap to 512 pixels by adding white space horizontally. Vertically, the bitmap needs to be 16 pixels high, and then repeat the image 3 more times to make it 64 pixels high. Repeating the icon four times, indicates there is no animation. You can also create a bitmap 32 pixels high (two (2) frames per icon) and repeat the image once to make 64 pixels high (so there would be two frames of animation repeated).

Panel Icons

For **Panel Icons**, the icons are 32x32 pixels. 16 panel icons are shipped with the keypanel, as well as 4-frame animation, so the bitmap must be 512x128, producing a table of 16x4 icons (each icon 32x32 pixels), see Figure 23. Like key icons, AZedit accepts a narrower image (as long as it is a multiple of 32) and uses white space to fill in the missing pixels. Shorter images are supported (as long as the image is either 32 or 64 pixels tall) and are replicated (3 times, or once) to get an image measuring 128 pixels tall.

IMPORTANT: The following icons are built into the panel. This file is shipped with AZedit so it can be easily copied and modified by the user to create their own icons.

By downloading your own icons, you are replacing the ones built into the keypanel. Retain a copy of the icons shipped with AZedit, in case you want to reuse the default icons.

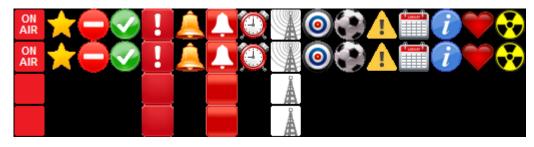


FIGURE 23. 512 x128 pixel bitmap of panel icons

Keypanel Mirroring (Control Package Only)

Keypanel Mirroring allows a licensed DKP-4016/4016W keypanel (licensed as a supervisor) to take control of a target keypanel. All KP-Series keypanels can be the target of mirroring, whereas only licensed keypanels can be the supervisor of a target keypanel. By default, Keypanel Mirroring is disabled, You must enable a panel to be a mirror supervisor using AZedit. This allows any licensed keypanel to initiate a mirroring operation on a local target keypanel.

IMPORTANT:	Mirroring is not supported across trunks.

Keypanel Mirroring operates in real-time, meaning when a supervisor keypanel initiates a mirroring operation almost all aspects of the target keypanel functionality are accessible. Once the configuration file is transferred from the target to the supervisor keypanel, the supervisor keypanel looks and behaves like the target. Turning keys on/off, adjusting key volumes or panel volumes on either the target or supervisor keypanel is seen immediately on the other keypanel.

IMPORTANT:	If using a DKP to mirror a KP-5032, you do not have access to keys 1-9 or 17-25 because the DKP only mimics the
	right side of the full 2RU panel.

On the target keypanel, the keypad is locked out, preventing the target keypanel from entering the menu. Any changes to the configuration made by the supervisor keypanel are immediately transferred to the target keypanel.

IMPORTANT: The Supervisor keypanel can change settings for features the Target is licensed for, even if the Supervisor is not licensed. Compression ratios, additional noise gate settings, and the 5-band equalizer settings are all available in the Supervisor (even if it is not licensed for these features) as long as the Target panel is licensed for them. For example, if the target keypanel supports a 5-band EQ and the supervisor keypanel does not, the supervisor keypanel is able to change the EQ settings.

In AZedit, if a keypanel is a mirror Supervisor or Target, an icon is shown in the Port Status area in the Keypanel View.

Supervisor icon	The Supervisor icon signifies the keypanel is mirroring another keypanel and can make changes to the other keypanel, known as a Target. For more information, see "Service Menu, Mirror (Control Package Only)" on page 230.
Target icon	The Target icon signifies the keypanel is being mirrored by another keypanel, known as a Supervisor. This keypanel is being remotely controlled by the Supervisor. For more information, see "Service Menu, Mirror (Control Package Only)" on page 230.

****These icons appear on the keypanels involved in the mirror operation.

IMPORTANT: If you make changes, including real time changes, to a Target Keypanel using AZedit, those changes are also seen on the Supervisor Keypanel. However, if you make changes, including real-time changes, to a Supervisor Keypanel using AZedit, those changes are made to the Supervisor's saved configuration, but are not implemented until the Supervisor Keypanel exits Mirroring and returns to normal operation.

To disable mirroring on a keypanel, do the following:

1. In AZedit, click the Edit button.

eypanel / Port Configuration	
Setup Advanced Vox	
Priorities	Options
IFB Priority	Enable Tone
Trunk IF <u>B</u> Priority 1	Keypanel Privacy
Irunk Priority	TIF <u>D</u> ial-Out Restrict
Panel Poll Delay (ms)	 Key Labels Do Not Interrupt Priority Call Volume +0.0 dB Enable Keypanel Mirroring
SIP Server / Port Selection	
ОК	Cancel Apply Help

- 2. Click the Advanced Tab.
- 3. Clear the Enable Keypanel Mirroring check box.
- 4. Send the **changes** to the intercom.

To enable mirroring on a keypanel, do the following:

1. In AZedit, click the Edit button. Edit... The Keypanel/Port Configuration window appears.

panel / Port Configuration	8
tup Advanced Vox	
Priorities	Options
IFB Priority	Enable Tone
Trunk IF <u>B</u> Priority 1	Keypanel Privacy
Trunk Priority	TIF <u>D</u> ial-Out Restrict
- Pa <u>n</u> el Poll Delay (ms)	Key Labels
0 <u>R</u> eset	Do Not Interrupt
IFB Listen Destination	Priority Call Volume +0.0 dB
Port Port Number Alpha	Enable Keypanel Mirroring
1 N001 -	
SIP Server / Port Selection	
<none></none>	
<none></none>	

- 2. Click the Advanced Tab.
- 3. Select the Enable Keypanel Mirroring check box.
- 4. Send changes to the intercom.

To take control of a target keypanel, do the following:

IMPORTANT: When you enter the Mirror menu looking for a target panel to Mirror, you can only see panels that are locally scroll enabled (ie. if they aren't in your scroll list, you won't be able to mirror them).

- 1. On the keypanel, starting at the Service menu, select **Mirror**.
- Press the SEL button.
 A list of available target keypanels appear in the panel display.
- 3. Using the arrow buttons, scroll to the target keypanel.
- **4.** Press the **SEL button**. *The Supervisor keypanel updates and displays the target keypanel's image.*

To exit Mirror mode on the keypanel, do the following:

- 1. On the keypanel, starting at the Service menu, select Mirror.
- Press the SEL button.
 The alpha of the target and Exit appear in the panel display.
- 3. Using the arrow buttons or Aux Volume shaft encoder, select Exit.
- **4.** Press the **SEL button**. *The mirroring target and supervisor icons disappear and keypanels go back to normal operation.*

Real-Time Control in AZedit (Control Package Only)

Real-Time Control allows you to make real-time (immediately applied) changes to intercom and keypanel volume controls as well as muting keypanel microphones, switching headset focus, setting AFK, and enabling tone at selected keypanel ports.

Intercom Volume Controls

Intercom Volume Controls are used to adjust Crosspoint Listen, Party Line Listen, Port Input Gain, and Port Output Gain. Adjustments to these different volumes can be done in real-time or modified and sent to the intercom at a later time.

There are two (2) ways to adjust the intercom volume controls;

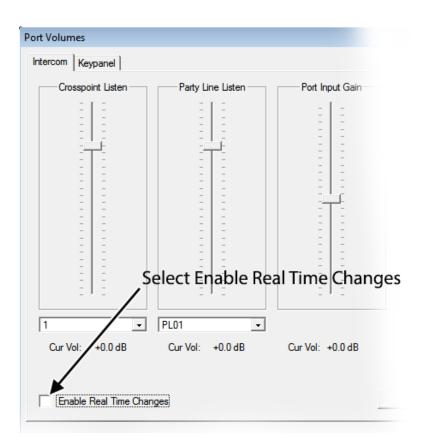
- via the Port Volumes window
- opening the individual gain adjustment screens

By default, intercom volumes are set at +0.0dB.

The range for Crosspoint Listen and Party Line Listen is *Mute*, -80dB to +6dB. The range for the Port Input Gain and the Port Output Gain is -20dB to +20dB.

To enable real-time intercom volume adjustments, do the following:

- On the KP/Ports screen, click the Port Volumes icon. The Port Volumes window appears. OR Right-click in the keypanel key field and select Change Volume. The Port Volumes window appears.
- 2.



3. In the lower left-hand corner of the window, select the **Enable Real Time Changes check box**. *The Intercom is real-time enabled.*

IMPORTANT: When changes have been made to the intercom volumes but have not been sent to the intercom and the Enable Real Time Changes check box is selected, a warning message appears (Figure 24).
Click Yes to abort all changes to volumes for this port.
Click No to leave the changes (but don't send them).
Click Cancel to disable real-time changes.

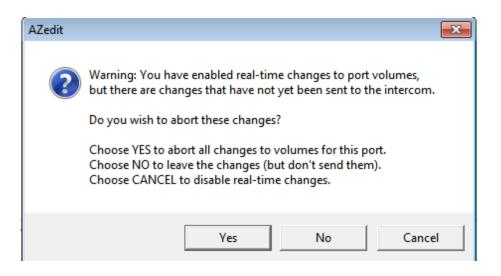


FIGURE 24. Real Time Warning Message

To adjust the intercom volumes via the Port Volumes window, do the following:

1. On the KP/Ports screen, click the **Port Volumes icon**.

The Port Volumes window appears. OR

Right-click in the **keypanel key** field and select **Change Volume.** *The Port Volumes window appears.*.

Port Volumes			? 🗙
Intercom Keypanel			
Crosspoint Listen	Party Line Listen	Port Input Gain	Port Output Gain
1 •	PL01 -		
Cur Vol: +0.0 dB	Cur Vol: +0.0 dB	Cur Vol: +0.0 dB	Cur Vol: +0.0 dB
Enable Real Time Chan	ges		Port Gain Reset
			Done

- 2. Verify the Intercom page is selected.
- 3. From the alpha drop down menu, select the alpha you want to adjust.(i.e., N001).
- 4. Using the volume sliders, make adjustments to the volume gain.

NOTE: If Real-Time is not enabled, send the changes to the intercom.

Keypanel Volume Controls

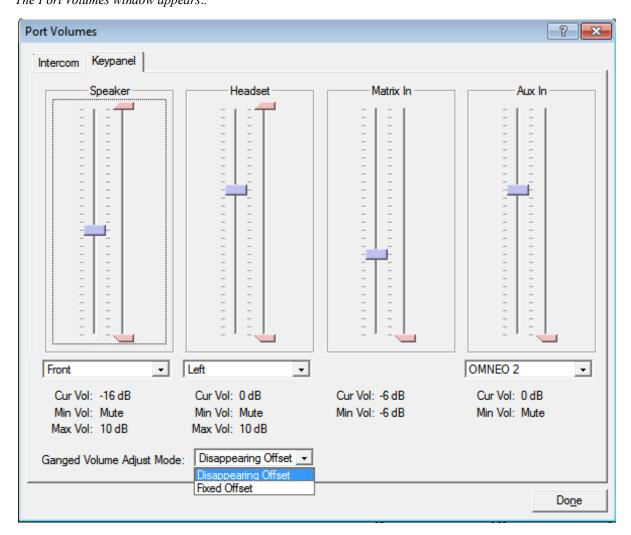
Keypanel Volume Controls are used to modify volumes on keypanels without physically going to the keypanel to do so. Unlike Intercom Volume Controls, Keypanel Volume Controls are always changed in real-time. However, the real-time controls are only enabled if the keypanel supports it (licensed). Adjustable keypanel volumes include Speaker (minimum and maximum), Headset (minimum and maximum), Matrix In minimum, and Aux In minimum.

By default keypanel volumes are +0.0dB.

The range for Speaker, Headset, Matrix In, and Aux In volumes is: Mute, -48dB to +10dB.

To adjust keypanel volumes, do the following:

 On the KP/Ports screen, click the Port Volumes icon. The Port Volumes window appears. OR Right-click in the keypanel key and select Change Volume. The Port Volumes window appears..



NOTE: When using ganged volumes, four (4) sliders appear in both the Speaker and Headset group boxes. See Figure 25. For more information on Ganged Volumes, see "Audio Options Menu, Ganged Vols" on page 188.

 From the drop down menu under Speaker, select Front or Rear. OR
 From the drop down menu under Headset, select Left or Right. OR

From the drop down menu under Aux In, select OMNEO 1 -8 or AUX 1.

IMPORTANT: OMNEO 1 can be an Aux channel if the keypanel is connected to the intercom via AIO.

- 3. From the Ganged Volume Adjust Mode drop down menu, select **Disappearing Offset** or **Fixed Offset**.
- 4. Using the volume sliders, adjust the **keypanel volume**.

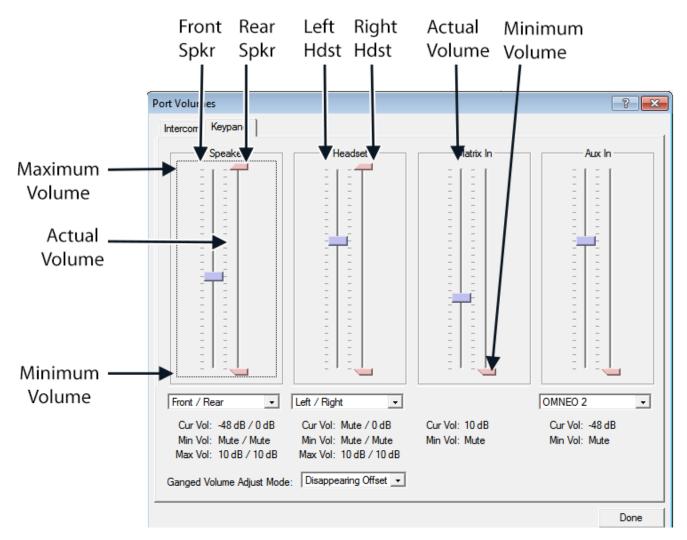


FIGURE 25. When Ganged Volumes are Configured

94 Basic Operation

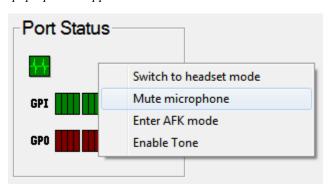
Mic Mute

Mic Mute is used to remotely enable or disable a selected keypanel (port) microphone from AZedit. This feature requires the Control Package license.

IMPORTANT:	When the Mic is muted, the mic mute icon flashes on the keypanel.
	When Tone is enabled, the mic mute icon is static on the keypanel.

To mute a microphone from AZedit, do the following:

- 1. From the Port/Alpha group box, select the **port/alpha** of the microphone which you want to mute.
- 2. Right-click in the Port Status group box. *A pop-up menu appears*.

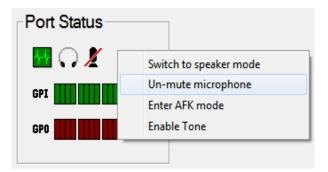


3. From the pop-up menu, select **Mute Microphone**.

A muted mic icon appears in the Port Status group box and a flashing Mic Mute icon appears in the keypanel display screen.

To unmute a microphone that is muted from AZedit, do the following:

- 1. From the Port/Alpha group box, select the **port/alpha** of the microphone you want to un-mute.
- 2. Right-click in the Port Status group box. *A pop-up menu appears.*



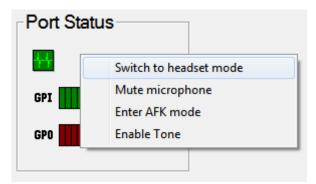
3. From the pop-up menu, select **Un-mute Microphone**. *The muted mic icon disappears in the Port Status group box and the flashing Mic Mute icon stops flashing in the keypanel display screen.*

Headset Transfer

Headset Transfer is used to switch between headset and speaker on a selected keypanel/port remotely from AZedit. This feature requires the Control Package license.

To switch to headset mode on the keypanel from AZedit, do the following:

- 1. From the Port/Alpha group box, select the keypanel port/alpha of the keypanel you want to switch to headset mode.
- 2. Right-click in the Port Status group box. *A pop-up menu appears*.



From the pop-up menu, select Switch to headset mode.
 A headset icon appears in the Port Status group box and appears in the keypanel display screen. The keypanel is in headset mode.

To switch to speaker mode on the keypanel from AZedit, do the following:

- 1. From the Port/Alpha group box, select the **port/alpha** of the keypanel you want to switch to speaker mode.
- 2. Right-click in the **Port Status group box**. *A pop-up menu appears.*

Port Status	
🔛 🖓 🗶 🛛	Switch to speaker mode
GPI	Un-mute microphone Enter AFK mode
GPO	Enable Tone

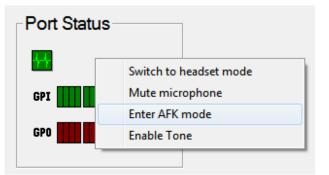
3. From the pop-up menu, select **Switch to speaker mode**. *The headset icon disappears and the speaker icon appears in the Port Status group box and appears in the keypanel display screen. The keypanel is in speaker mode.*

AFK Mode

AFK Mode is used to enable and disable **AFK** (Away From Keypanel) on a keypanel/port remotely from AZedit. This feature requires the Control Package license. For more information on AFK, see "Voice Messaging (Audio Package Only)" on page 59.

To enter AFK mode on a keypanel remotely from AZedit, do the following:

- 1. From the Port/Alpha group box, select the keypanel port/alpha you want to enable AFK.
- 2. Right-click in the **Port Status group box**.
 - A pop-up menu appears.



3. From the pop-up menu, select **Enter AFK mode**. *The AFK icon in the Port Status group box and in the keypanel display screen.*

To exit AFK mode on a keypanel remotely from AZedit, do the following:

- 1. From the Port/Alpha group box, select the **keypanel port/alpha** you want to exit AFK mode.
- 2. Right-click in the Port Status group box. *A pop-up menu appears.*

Port Status	
🔣 🖓 🗶 🖷	Switch to speaker mode
GPI	Un-mute microphone
	Exit AFK mode
GPO	Enable Tone

3. From the pop-up menu, select **Exit AFK mode**. *The AFK icon disappears from the Port Status group box and from the keypanel display screen.*

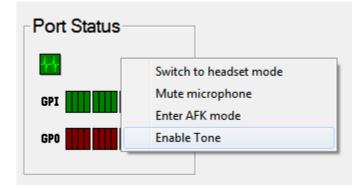
Enable Tone

Enable Tone is used to enable and disable the tone generator on the selected keypanel/port from AZedit. This feature requires the Control Package license.

IMPORTANT:	When Tone is enabled, the mic mute icon is static on the keypanel.
	When the Mic is muted, the mic mute icon flashes on the keypanel.

To enable tone on the keypanel remotely from AZedit, do the following:

- 1. From the Port/Alpha group box, select the **port/alpha** you want to enable tone.
- 2. Right-click in the **Port Status group box**. *A pop-up menu appears.*

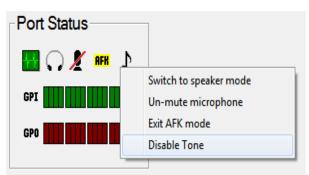


3. From the pop-up menu, select **Enable Tone**.

An enable tone icon appears in the Port Status group box and appears in the keypanel display screen. The keypanel sends a tone to the intercom.

To disable tone on the keypanel remotely from AZedit, do the following:

- 1. From the Port/Alpha group box, select the **port/alpha** you want to disable tone.
- 2. Right-click in the Port Status group box. *A pop-up menu appears.*



3. From the pop-up menu, select **Disable Tone**. *The enable tone icon disappears from the Port Status group box and disappears from the keypanel display screen.* OR

Keypanel Configuration (Control Package Only)

The **Keypanel Configuration** window gives you the ability to upload a keypanel's configuration file to AZedit, make changes to the configuration, save the configuration, and send it back to the keypanel.

You can also send one configuration file to multiple keypanels from AZedit.

Upload a Configuration File from a Keypanel

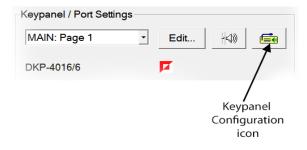
Uploading a configuration file from a keypanel can be used to modify an existing keypanel configuration file and/or save it.

To upload a keypanel's configuration file to AZedit, do the following:

1. From the Port Alpha group box, enter the **port number**.

From the Alpha drop down menu, select the Alpha of the keypanel/port you want to configure.

2. Click the Keypanel Configuration icon.



The Keypanel Configuration window appears.

- 3. Make modifications to the configuration file.
- 4. Click Apply to apply the modifications to the keypanel

Load Button

The **Load** button is used to import or merge a saved configuration file on top of the settings you are viewing.the Miscellaneous|Keypanel Configuration menu item allows you to Open a saved configuration file and edit it, which is different from a Load.

OPENOpens a saved file, which can be modified and re-saved, but not Applied

LOADOpens an existing configuration file (which can either be opened or uploaded) and then overlays/ merges the contents of a dialog with the contents of the file. It marks everything in the file as changed, but only loads items from that file that were already in the configuration being edited. You can make more changes to the file, save to file, or (if the settings were uploaded) you can Apply them to the keypanel (download to the keypanel)

To load a configuration file to AZedit, do the following:

- 1. From the System menu, select **Miscellaneous**|**Keypanel Configuration**. *A network folder appears*.
- 2. Navigate to and select the keypanel configuration file (.kpc file) you want to load into AZedit.
- Click Open. The Keypanel Configuration window appears.
- 4. Make the necessary modifications to the file.
- 5. Click the Save All or Save Changes.

Save All Button

The Save All button is used to save the entire configuration file.

To perform a save all, do the following

1. Make modifications to the configuration file, as desired.

- 2. Click the Save All button. The Save Keypanel Configuration window appears.
- 3. Enter a **unique file name** and make note of where its saved on the network.
- 4. Click **OK**. *The configuration file is saved.*

Save Changes Button

The Save Changes button is used to save only modifications in the configuration file.

- 1. Make modifications to the configuration file, as desired.
- 2. Click the Save Changes button. The Save Keypanel Configuration window appears.
- 3. Enter a unique file name and make note of where its saved on the network.
- 4. Click OK. *The changes are saved.*

Apply Button

The **Apply** button is used to download modifications made to the keypanel configuration directly to the keypanel. The Apply button is only active if you uploaded the current configuration from a keypanel. If you opened a configuration file using the System|Miscellaneous menu, the Apply button is disabled.

IMPORTANT: Applying changes to a keypanel configuration also causes the keypanel to do a Save Config, storing the settings locally.

To apply changes to the keypanel, do the following:

- 1. Make modifications to the configuration file, as desired.
- Click the Apply button. The modifications are sent directly to the keypanel.

Download a Configuration File to Multiple Keypanels

IMPORTANT: Downloading a configuration to a keypanel also causes the keypanel to do a Save Config, storing the settings locally.

To download a configuration file to one or more keypanels, do the following:

- From the Status menu, select Port. The Port Status screen appears. OR From the Status menu, select Software Versions|Keypanels. The Keypanel Version Information screen appears.
- 2. Select the port(s) or keypanel(s) you want to download the configuration file to.
- 3. Right-click the selected **port(s)** or **keypanel(s)**. *A popup menu appears*.
- 4. From the popup menu, select **Download Keypanel Configuration...** . *A network folder appears.*
- 5. Navigate to where the keypanel configuration file is kept.
- Select the file and click Open. The Download Keypanel Configuration window appears.
- 7. Click Begin Download.

Panel Options Page.

P Encoder Assignments	Panel Swap		UPG Key Definition -		
Encoder Panel	Number of Virtual El	KP's 🚺 📩	Key	Operation	GPIO Output
			UPG1	Unassigned -	
	Retain Key Sta	te	UPG2	Unassigned	
	Action For Each Tric	nger Type	UPG3	Menu	
		Action	UPG4	Menu	
	Trigger	Unassigned -	UPG5	Unassigned	
	GPI In Opto1		UPG6	Unassigned	
	GPI In Opto2 GPI Out Relay1	Unassigned	UPG7	Unassigned	
	GPI Out Relay2	Unassigned	UPG8	Unassigned	
	Keypad FWD	Cycle To Next	UPG9	Unassigned	
	Keypad BACK	Cycle To Previous			
	Keypad UPG1	Unassigned	Quick-Assign Listen A	Assignments	
	Keypad UPG2	Unassigned	Function Type	Listen Assignment	1
	Keypad UPG3	Unassigned	PP	AL	
	Keypad UPG4	Unassigned	PL	AL	-
	Keypad UPG5	Unassigned	SI	AL	-
	Keypad UPG6	Unassigned 🗸	GRP	AL	
nel Mode Intercom Mode Standard Alpha Size 6 character	Miscellaneous SEL Key Function Page Change Mode		Snoop Tally Chime cone: Duration One sh		
I Input Assignments		GPI Output	Assignments	Footswitch Mode	e
Input Assign To Track	Key / Group Key	y Mode Outp	ut Key / UPG	Enable I	Footswitch
Opto 1 None - Input		Relay	/1 None -		
Opto 2 None Input		Relay	2 None	J Unlatch	Keys on Release

FIGURE 26. Keypanel Configuration – Panel Options

LCP Encoder Assignments Group Box

The DKP-4016/4016W does not support LCP Assignments.

Panel Swap Group Box

The **Panel Swap** group box is used to give users the ability to quickly and easily change a group of keypanel assignments on the keypanel. This is done through the use of virtual expansion panels. Panel swap differs from changing setup pages because the keys can stay active even when they are no longer visible on the main panel. For a description of the selections available, see "Key Options Menu, Panel Swap" on page 214.

anel Swap Number of Virtual El	,	
Action For Each Trig	gger Type	
Trigger	Action	
GPI In Opto1	Cycle To Next	
GPI In Opto2	Cycle To Previous	
GPI Out Relay1	Switch To MAIN	
GPI Out Relay2	Switch To EKP1	-
Keypad FWD	Cycle To Next	
Keypad BACK	Cycle To Previous	
Keypad UPG1	Unassigned	
Keypad UPG2	Unassigned	
Keypad UPG3	Unassigned	
Keypad UPG4	Unassigned	
Keypad UPG5	Unassigned	
Keypad UPG6	Unassigned	_

FIGURE 27. Panel Options Page – Panel Swap Group Box

To configure panel swap, do the following:

- 1. Using the Number of Virtual EKPs scroll box, enter the number of virtual EKPs.
- 2. Select the **Retain Key State check box** to retain the key states when the keys are not visible (for example, when the page the keys are located is not being displayed).
- 3. From the Action column next to the key you want to configure, select the appropriate panel swap action.

UPG Key Definition Group Box

The **UPG Key Definition** group box is used to assign different inputs and outputs to the UPG keys on the keypanel remotely from AZedit. For more information on UPG Buttons, see "User Programmable Buttons" on page 64.

IMPORTANT: Menu Assignments cannot be created from this screen; however, they can be removed.

Key	Operation	GPIO Output
UPG1	Local GPIO Output	Relay 2
UPG2	Unassigned	
UPG3	Menu	
UPG4	Menu	
UPG5	Unassigned	
UPG6	Unassigned -	
UPG7	Unassigned	
UPG8	Local GPIO Output	
UPG9	Unassigned	

FIGURE 28. Panel Options Page – UPG Key Definition Group Box

To configure a UPG key, do the following:

- 1. From the Operation column next to the UPG you want to configure, select the operation you want.
- 2. From the GPIO Output column drop down menu, select the output action desired.

Quick-Assign Listen Assignments Group Box

The **Quick Assign Listen Assignments** group box is used to assign listen assignment to point-to-point, party line, special list, and group key assignments. Note, this does not change existing keypanel assignments, it only affects assignments you make in the future using the Quick Assign function. For more information on listen assignments, see "Operation of Intercom Keys with Auto Functions" on page 51.

Function Type	Listen Assignment
PP	AL
PL	AL
SL	AL
GRP	AL •
	AL
	AF
	AM
	AR

FIGURE 29. Panel Options Page – Quick-Assign Listen Assignments Group Box

To assign a listen assignment, do the following:

> From the listen assignment column drop down menu, select the desired listen assignment for the function type.

Panel Mode Group Box

The **Panel Mode** group box is used to configure the keypanel's operating mode and alpha display.

Intercom Mode is used to select the type of firmware you have in your intercom so the keypanel can display alphas in the correct font/ language and modify the behavior of some functions to match the intercom behavior.

NOTE: Standard mode is the default and should be used in most cases. Alternate mode is primarily used for intercoms running Japanese firmware.

The Alpha Size is the number of alpha characters shown in the display panel window.

Panel Mode		
Intercom Mode	Standard 💌	
Alpha Size	4 character 🔹	
	4 character	
	6 character 8 character	
	8 character (Unicode)	

FIGURE 30. Panel Options Page – Panel Mode Group Box

IMPORTANT: The keypanel saves its configuration and reboots if the panel mode is changed.

To configure panel mode, do the following:

- 1. From the Intercom Mode drop down menu, select the **Standard** or **Alternate**.
- 2. From the Alpha Size drop down menu, select 4 character, 6 character, 8 character, or 8 character (Unicode).

Miscellaneous Group Box

The Miscellaneous group box is used to configure SEL key functions and Page Change Mode.

The **SEL Key** function allows the user to choose what function the SEL key performs when not in menu mode. For a description of the selections available, see "SEL Key" on page 227.

Page Change is used to select whether you are allowed to change setup pages while talk keys are active. By default, in Standard Intercom Mode, page changes are allowed when talk keys are active. However, the default in Alternate Intercom Mode does not allow page changes to occur when talk keys are active. For a description of the selections available, see "Service Menu, Page Change" on page 234.

Miscellaneous	
SEL Key Function	Assignment Groups -
Page Change Mode	Auto 🔹
	Always On No Talk Keys

FIGURE 31. Panel Options Page – Miscellaneous Group Box

Snoop Tally Group Box

The **Snoop Tally** group box is used to configure the type and length of the snoop tally, when enabled. The snoop tally indicates to keypanel users somebody is listening to them.

For a description of the duration selections available, see "Service Menu, Snoop Tally" on page 237.

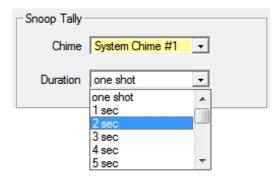


FIGURE 32. Panel Options Page – Snoop Tally Group Box

To configure the snoop tally, do the following:

- 1. From the Chime drop down menu, select the chime you want to use.
- 2. From the Duration drop down menu, select the **duration** you want the chime to sound.

GPI Inputs Assignments Group Box

The **GPI Inputs Assignment** group box is used to configure GPI inputs on the keypanel. Inputs can be assigned to activate intercom keys (including group master keys).

Further configuration can be done to allow GPI Inputs to track the state of the Output. For example, if an output is activated (and is being tracked by an input), the input is also activated. This feature allows GPIO Outputs to control Talk Key or Key Group activation.

In addition to tracking, you can also configure the way an Input GPIO Key Group is configured. By default, when a key group is activated, the keys are forced on until the key group is deactivated. This is referred to as Level Mode. Alternatively, you can configure the key group to Edge Mode. This option turns on keys in a key group when the group is activated, but allows the user to turn off individual keys even if the key group is still active.

For a description of the selections available, see "Service Menu, Local GPIO" on page 228.

PI Input Assignm	ents			
Input	Assign To	Track	Key / Group	Key Mode
Opto 1	Key Group	Output	Group 1	Edge
Opto 2	Talk Key	Input	Key 1	

FIGURE 33. Panel Options Page – GPI Input Assignments Group Box

To configure the GPI Input Assignments, do the following:

- 1. From the Assign To column drop down menu, select whether the input is assigned to a talk key or a key group.
- 2. From the Track column drop down menu, select the whether the input should track the output.
- 3. From the Key/Group column drop down menu, select the key or group the input is configured to.
- 4. From the Key Mode drop down menu, select the **behavior of keys in a group** when they are activated.

GPI Output Assignments Group Box

The GPI Output Assignments group box is used to assign Relays 1 and 2 to keys on the keypanel.

PI Output Assign	ments			
Output	Key / UPG			
Relay 1	UPG 8			
Relay 2	Relay 2 Key 42 🔻			

FIGURE 34. Panel Options Page - GPI Output Assignments Group Box

To configure the GPI Output Assignments, do the following:

> From the Key/UPG column drop down menu next to the relay you want, select the key or UPG you want to assign the relay.

Footswitch Mode Group Box

The **Footswitch Mode** group box is used to enable the footswitch and configure the behavior of keys upon release. For more information, see "Service Menu, Footswitch" on page 222.

To cable for a Footswitch, see "Footswitch Cabling" on page 29.

Footswitch Mode	1
Enable Footswitch	
✓ Unlatch Keys on Release	

FIGURE 35. Panel Options Page – Footswitch Mode Group Box

To configure the enable and configure the footswitch, do the following:

- 1. Select the Enable Footswitch check box.
- 2. Select the Unlatch Keys on Release check box if you want the latched talk keys to become unlatched when the footswitch is released

Display Page

The **Display Page** is used to configure the keypanel and expansion panel displays, including backlight colors, percentage of brightness, screen saver settings, key display options, and panel display options.

Keypanel Configur		b.	L.	۱		?
Panel Options Dis	splay Key Options	Audio Options Audi	o Levels Advanced			
Keypad Backlig	pht		LCD Backlight	t		
Mode	Activated + Swallo	w 🗾 👻	Panel	Left LCD	Right LCD	
			Main	65% 🗘	65%	
Colors			EKP1	65%	65%	
Mode	Color	Brightness	EKP2	65%	65%	
Inactive	Blue 🔻	30%	EKP3	65%	65%	
Active	Blue	100%	EKP4	65%	65%	
Shift	White	100%	EKP5	65%	65%	
			EKP6	65%	65%	
			EKP7	65%	65%	
Key Display Op	tions					
)ptions Show Main Volume ⁄lenu Context	•	N	lay Mode Text lovement Scroll ing Delay 1 Hour rightness 25 -	• • •	
CWW Options - Number of		<u>*</u> *				
Load	Save All Save C	hanges				Apply Cancel

FIGURE 36. Keypanel Configuration – Display Page

Keypad Backlight Group Box

The **Keypad Backlight** group box is used to select the color and brightness of the keypad backlight LEDs at various usage states and to configure the keypad mode.

For more information on the keypad backlight options and descriptions, see "Service Menu, Keypad" on page 224.

	Mode	Activated			
		Always Inactiv	Always Inactive		
		Activated			
		Activated + Swallow			
	Mode	Always Active		_	
	Inactive	Blue	•	30%	
	Active	Blue		100%	
	Shift	White		100%	

FIGURE 37. Display Page – Keypad Backlight Group Box

To configure the keypad backlight, do the following:

- 1. From the Mode drop down menu, select how the **keypad backlight is activated whether the first keypress is processed or swal-lowed**.
- 2. From the Color column drop down menu, select either Blue or White.
- 3. From the Brightness column drop down menu, select the brightness percentage you desire.

Key Display Options Group Box

The **Key Display Options** group box is used to configure the keypanel keys to show key crosspoint gains, show listen assignments, or show the matrix for each key assignment. For more information on the available options, see "Service Menu, Key View" on page 224.

NOTE: Not all options are available in 8-character alpha (or Unicode) mode. This is because the alpha takes two rows to display on the key, and there is insufficient room to show volumes and lstn/mtx assignments.

IMPORTANT: Show Listen and Show Matrix are mutually exclusive options. Only one (1) of these options may be enabled at a time

Key Display Options			
Always Show	Per-Key Volumes		
Show Listen Dis	abled		
Show Matrix Dis	abled		

FIGURE 38. Display Page – Key Display Options Group Box

To configure the keypanel display, do the following:

- 1. Select the Always Show Per-Key Volumes check box if you want to **display the crosspoint gain for each key** on the keypanel.
- 2. From the Show Listen drop down menu, select Disabled, Enabled, or Enabled-Suppress Auto-Function.
- 3. From the Show Matrix drop down menu, select Disabled, Enabled, or Enabled-Suppress Local.

Panel Display Options Group Box

The **Panel Display Options** group box is used to enable the menu context, display speaker volume and to switch the display to emulate a KP-32 keypanel. For more information on the available settings, see "Service Menu, Key View" on page 224.

Panel [Display Options
	Always Show Main Volume
~	Show Menu Context
	Emulate KP-32

FIGURE 39. Display Page – Panel Display Options Group Box

To configure the panel display options, do the following:

- 1. Select the Always Show Main Volume check box.
- 2. Select the Menu Context check box to display the navigational menu above the keypanel keys.
- 3. Select the Emulate KP-32 check box to convert the keypanel display to look like a KP-32 Classic keypanel.

CWW Options Group Box

The **CWW** Options group box is used to configure the CWW. There are two configuration options; how many calls can be shown in the CWW and what happens to the highlight when a new call comes in to the keypanel.

DKP-4016

For a detailed explanation of the options available, see "Service Menu, CWW" on page 221.

CWW Options	
Number of Entries 9	- -
On New Caller Don't Select	•

FIGURE 40. Display Page – CWW Options

To configure the CWW options, do the following:

- 1. From the Number of Entries drop down menu, select between 3 and 9 entries.
- 2. From the On New Caller drop down menu, select Select New Call, Select If Idle or Don't Select.

LCD Backlight Group Box

The LCD Backlight group box allows you to set the brightness of the panel display of all keypanels and any expansion panel connected to the main keypanel.

Panel	Left LCD	Right LCD
Main	65%	65% 📫
EKP1	65%	65%
EKP2	65%	65%
EKP3	65%	65%
EKP4	65%	65%
EKP5	65%	65%
EKP6	65%	65%
EKP7	65%	65%

FIGURE 41. Display Page – LCD Backlight Group Box

IMPORTANT: When making changes to the DKP LCD Backlight, the Right LCD drop down menu corresponds to the DKP display panel.

To configure the LCD Backlight, do the following:

> From the Right LCD column spin box menu next to the display you want to set, select the brightness percentage.

Screen Saver Group Box

The **Screen Saver** group box is used to configure the screen saver. For more information on the available settings, see "Service Menu, Scrn Saver" on page 235.

Screen Saver	
Activation Delay	1 Hour
Display Mode	Text 💽
Movement	Bounce
Dimming Delay	1 Hour
Dimming Brightness	25 * %

FIGURE 42. Display Page – Screen Saver Group Box

To configure the screen saver, do the following:

- 1. From the Activation Delay drop down menu, select the **amount of inactive time** before the screen saver activates on the keypanel.
- 2. From the Display Mode drop down menu, select the display mode for the screen saver.
- 3. From the Movement drop down menu, select the type of movement the screen saver should display.
- 4. From the Dimming Delay drop down menu, select the **amount of time** to pass before the display dims.
- 5. Using the scroll box, scroll to the percentage the display should dim when dimming delay time is met.

Key Options Page

The **Key Options Page** is used to configure many of the keypanel operation options, such as auto dial functions, chime keys and duration, exclusive keys, key group assignments, solo key configuration, latching options, button lock, and tally operation.

Keypanel Configuration						? <mark>-</mark> ×
Panel Options Display Key Options Audio Options	Audio Levels Adv	anced Filters				
⊂ Solo and Exclusive Keys	Autodial Numb				Key Icons	
-						
Solo Key <empty></empty>	Entry		Number		Key State	Display
Exclusive Keys <empty></empty>	<add> •</add>				Has TIF Assignment	×
					Has Trunk Assignment	X
Latch Disable					Has Chime	X
Latch Disable					Is Group Master	
Talk Keys <empty></empty>					Has Autodial	X
	One-Touch Au	todials			Is Exlusive	X
Listen Keys <empty></empty>	Key		Autodial #		Is Solo Key	×
Global Latch Enable	<add></add>					
,					Key Volumes	
Button Lock	,				Allow Key Volume Adj	
					Allow Rey Volume Adj	ustments
Talk Keys					Minimum Key Volumes -	
Locked On <empty></empty>	Key Groups				Key Volu	ume
Locked Off <empty></empty>					<add></add>	
	Group	Master Key	Talk Keys	Listen Keys		
		<none></none>	<empty></empty>	<empty></empty>		
Listen Keys	2	<none></none>	<empty></empty>	<empty></empty>		
Locked On <empty></empty>	3	<none></none>	<empty></empty>	<empty></empty>		
	4	<none></none>	<empty></empty>	<empty></empty>		
Locked Off <empty></empty>						
	Chimes]	
	Key	Chime		Duration		
Tallies	<add></add>					
Minimum Tally Duration 15 sec 🔹						
Generate Indefinite Incoming Call Tallies						
Load Save All Save Changes					Apply	Cancel

FIGURE 43. Keypanel Configuration – Key Options Page

Solo And Exclusive Keys Group Box

The **Solo and Exclusive Keys** group box is used to configure solo and exclusive keys. For a description of a solo key, see "Key Options Menu, Solo" on page 216. For a description of an exclusive key, see "Key Options Menu, Exclusive" on page 211.

NOTE: You can assign only one (1) solo key per keypanel.

-Solo and Exclusive	e Keys	
Solo Key	<empty></empty>	
Exclusive Keys	<empty></empty>	

FIGURE 44. Key Options Page - Solo and Exclusive Keys Group Box

To **configure a solo key**, do the following:

Row	Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	1	X													
	2														
	3														
	4														
	5														
	6														
	7														
	8														Γ
	0			1			L	,							

2. Select the **check box** which correlates to the keypanel key and page you want to assign the solo key.

3. Click OK.

The Key Selection window closes and the key number appears in the Solo Key field.

To configure the exclusive keys, do the following:

1. Click the **Exclusive key browse button** . *The Key Selection window opens.*

Row	Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	1	X													
	2														
	3														
	4														
	5														
	6														
	7														
	8														

- 2. Select the **check boxes** which correlate to the keypanel keys and pages you want to assign an exclusive key.
- 3. Click OK.

The Key Selection window closes and the key number appears in the Solo Key field.

Latch Disable Group Box

The Latch Disable group box is used to enable or disable the keypanel key to stay on when pressed. For more information, see "Key Options Menu, Latching" on page 213.

NOTE: A key only latches if it is pressed and released within 0.5 seconds. Otherwise, the key always turns off when released.

Latch Disable		
Talk Keys	1,	
Listen Keys	<empty></empty>	
Global Li	atch Enable	

FIGURE 45. Key Options Page – Latch Disable Group Box

To latch disable specific talk and listen keys, do the following:

- 1. Click either the **Talk or Listen browse button** *The Key Selection window appears.*
- 2. Select the key you want to latch disable.
- 3. Click OK.

To latch enable or disable all keys (global latch enable), do the following:

Select the Global Latch Enable check box.
 OR
 Clear the Global Latch Enable check box to globally disable latching.

Button Lock Group Box

The Button Lock group box is used to lock talk and/or listen keys in the on or off position. Each key may be independently locked on or off.

B	utton Lock		
	Talk Keys		
	Locked On	<empty></empty>	
	Locked Off	<empty></empty>	
	Listen Keys		
	Locked On	<empty></empty>	
	Locked Off	<empty></empty>	

FIGURE 46. Key Options Page – Button Lock Group Box

To configure button lock on or off for talk keys, do the following:

From the talk keys group box, click the browse button for Locked On OR

Click the **browse button** for Locked Off. *The Key Selection window opens.*

Row	Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	1	X														
	2															
	3															
	4															
	5															
	6															
	7															
	8															

2. Select the **check boxes** of all the talk keys you want to configure as Locked On. OR

Select the **check boxes** of all the talk keys you want configure as Locked Off.

3. Click **OK**. *The Key Selection window closes.*

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To configure button lock on or off for listen keys, do the following:

From the listen keys group box, click the **browse button** for Locked On . 1.

OR Click the browse button for Locked Off.

The Key Selection window opens.

Row	Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	1	X													
	2														
	3														
	4														
	5														
	6														
	7														
	8														

Select the check boxes of all the listen keys you want to configure as Locked On. 2. OR

Select the check boxes of all the listen keys you want configure as Locked Off.

3. Click OK. The Key Selection window closes.

Tallies Group Box

The Tallies group box is used to set the amount a time a blinking tally displays. For more information about Tallies, see "Key Options Menu, Tallies" on page 217.

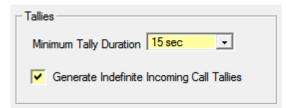


FIGURE 47. Key Options Page – Tallies Group Box

To configure tally times, do the following:

From the Minimum Tally Duration drop down menu, select the duration of time you desire. >

To generate indefinite call tallies, do the following:

Select the Generate Indefinite Incoming Call Tallies check box to set indefinite tallies for all calls. 4.

Autodial Numbers Group Box

The Autodial Numbers group box is used to configure up to 100 autodial numbers. Autodial stores commonly used phone numbers in the auto dial list locally on the keypanel.

You can also create a centralized auto dial list which is stored on the Master Controller and maintained through AZedit. For more information, see "Centralized Auto Dials" on page 243.

AL	todial N	umb	ers
[Entry	r	Number
	1		18005551212
	<add></add>	•	
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	I	

FIGURE 48. Key Options Page – Autodial Numbers Group Box

To add autodial numbers, do the following:

- 1. From the Entry column drop down list, select the **entry number** for your autodial number. This number does not have to follow sequence.
- 2. In the Number column field, enter the **number** you want to assign as an autodial.

NOTE: No spaces or dashes are allowed in the number entry field.

One-Touch Autodials Group Box

The **One-Touch Autodials** group box is used to assign autodial numbers to specific keypanel keys. One-Touch Auto Dials are configured using the locally stored numbers on the keypanel. Once a 1-Touch Auto Dial key is configured, pressing the configured key causes the TIF to go off-hook and auto dial the selected number.

IMPORTANT: You must have existing autodial numbers before assigning them to a keypanel key. See "Autodial Numbers Group Box" on page 117.

2	1: 18005551212	
<add></add>		

FIGURE 49. Key Options Page – One-Touch Autodials Group Box

To add an autodial number, do the following:

Row	Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	1	X													
	2														
	3														
	4														
	5														
	6														
	7														
	8														

- 2. Select the key (or keys) you want to assign autodial.
- 3. Click OK.

The Key Selection window closes.

4. From the Autodial # column drop down menu, select the **number** you want to assign to the key.

Key Groups Group Box

The **Key Groups** group box is used to set up key groups. A key group allows a user to activate a group of keys by activating one (1) key (the master key). When the master key is activated, all keys in the group become active.

You can create up to four (4) key groups.

Group	Master Key	Talk Keys	Listen Keys
1	1	4, 5, 6	2, 11, 12, 13,
2	<none></none>	<empty></empty>	<empty></empty>
3	<none></none>	<empty></empty>	<empty></empty>
4	<none></none>	<empty></empty>	<empty></empty>

FIGURE 50. Key Options Page – Key Groups Group Box

To create a key group, do the following:

1. In the Master Key column, click the **browse button** . *The Key Selection window appears.*

Row	Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	1	X													
	2														
	3														
	4														
	5														
	6														
	7														
	8														

2. Select the keypanel key check box you want to set as the Master key.

NOTE: Only one (1) key can be a master key.

- 3. Click OK.
 - The Key Selection window closes.
- From the Talk Keys column, select the browse button. The Key Selection window appears.
- 5. Select the **check boxes** of all the talk keys you want to assign as slave keys.
- 6. From the Listen Keys column, select the **browse button**. *The Key Selection window appears.*
- 7. Select the **check boxes** of all the listen keys you want to assign as slave keys.

Chimes Group Box

The **Chimes** group box is used to configure a chime tone to sound on incoming call announcements for selected keypanel keys. You can configure the chime tone to activate for a specified amount of time after a call is received. For more information on chimes, see "Key Options Menu, Chime" on page 210.

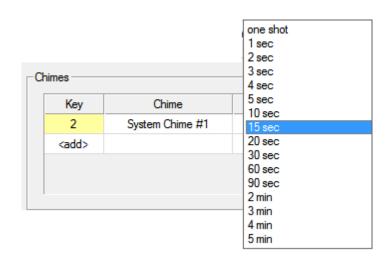


FIGURE 51. Key Options Page – Chimes Group Box

To configure a chime notification, do the following:

Row	Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	1	X													
	2														
	3														
	4														
	5														
	6														
	7														
	8														

- 2. Select the **key** you want to assign the chime notification.
- 3. Click OK.

The Key Selection window closes and the key number appears in the field.

- 4. From the Chime column drop down menu, select the **chime** you want to assign.
- 5. From the Duration column drop down menu, select the duration the chime notification should last.

Key Icons Group Box

The Key Icons group box is used to determine which key states will display an icon to visually represent their assigned state.

For more information, see "Key Options Menu, Icons" on page 212.

Key State	Display
Has TIF Assignment	×
Has Trunk Assignment	×
Has Chime	×
Is Group Master	×
Has Autodial	×
ls Exlusive	×
ls Solo Key	×

FIGURE 52. Key Options Page – Key Icons Group Box

To enable key icons, do the following:

6. In the Display column, select the **check box** next to the key state you want to display an icon.

Key Volumes Group Box.

_	/olumes Allow Key V	′olume Adjustme	ents
ГМ	inimum Key \	/olumes ———	
	Key	Volume	
	1	4 dB	+
	<add></add>		

FIGURE 53. Key Options Page – Key Volumes Group Box

Allow Key Volume Adjustments Check Box

The Allow Key Volume Adjustments check box is used to globally enable or disable key volume adjustments.

To enable key volume adjustments, do the following:

> Select the Allow Key Volume Adjustments check box.

Minimum Key Volumes Table

The Minimum Key Volumes table is used to adjust minimum volumes for each key on the keypanel.

To adjust minimum volumes, do the following:

In the Key column field, click the browse button .
 The Key Selection window appears.

Row	Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	1	X													
	2														
	3														
	4														
	5														
	6														
	7														
	8														

- 2. Select the **key** you want to adjust.
- 3. Click OK.

The Key Selection window closes.

4. Using the Volume column spin box, adjust the **minimum volume** of the key.

Audio Options Page

IMPORTANT: OMNEO 3 through OMNEO 8 only appear when the Audio Package is purchased, otherwise, they do not display.

Dispidy Ney	Options Addie Optio	ons Audio Levels Advanced	Filters			
o Modes		Mic Options		Matrix Out and S	idetone Options	
Mic	Mode	Mic Preamp	Mode Switched -	Matrix Outpu	t Mode Switched 🗨	
Front Panel Mic	Switched	▼				
Rear Panel Mic	Disabled	Mic Mute	Mode Toggle 🔹	Matrix Output	ıt Level ⁸ <u>→</u> db	
Left Headset Mic	Switched	Mic Gain Adjust S	ource None -	Sideton	e Mode Switched 🔹	
Right Headset Mic	Switched					
		AEC Mic F	Priority Front	Sideton	e Level -20 📑 db	
eaker / Headset Modes	3					
Output	Mode	Headset Configuration	n			
Front Speaker	Switched	✓ Headset	Mic Type	Mic Auto-Mute	Headset Auto-Transfer	
Rear Speaker	Disabled	Left Headset	Auto Detect 🔹	X	×	
Left Headset (Left)	Always On	Right Headset	Auto Detect	×	×	
Left Headset (Right)	Always On					
Right Headset (Left)	Always On	Headset Trans	fer Active			
Right Headset (Right)	Always On					
		Creed Velores		V/M O-Fare		
x Inputs		-Ganged Volumes		VM Options		
Input	Mode	Ganged Volume	Mode Disappearing 🔹	Isolate [Juring Playback	
Matrix In	2.100.100		aker Volume Control	When Mailho	x Full Reject New -	
OMNEO 2	Enabled	j Galiged Spea		When Maibe		
OMNEO 3	Enabled	Ganged Hea	dset Volume Control	Auto-Re	cord Disabled 🔹	
OMNEO 4	Enabled					
OMNEO 5	Enabled	- Tone Generator				
OMNEO 6	Enabled					
OMNEO 7	Enabled	Tone Frequ	Jency 500 Hz 🔹			
Aux 1	Enabled					
lumber of Analog Aux Ir	nputs 1	•				

FIGURE 54. Keypanel Configuration – Audio Options

Mic Modes Group Box

The Mic Modes group box is used to configure panel mics and headset mics.

Available options for this group box are:

Disabled

Enabled

Switched When set to Switched mode, the state of the Panel Mic is controlled by the Mic Sel key.

The default for the Rear Panel Mic is *disabled*, while the default for the Front Panel Mic is *switched*.

Mic	Mode
Front Panel Mic	Switched 🔻
Rear Panel Mic	Disabled
Left Headset Mic	Switched
Right Headset Mic	Switched

FIGURE 55. Audio Options Page – Mic Modes Group Box

To configure the mic mode, do the following:

> From the Mode column drop down list, select the mode for the microphone you want to configure.

Speaker / Headset Modes Group Box

The Speaker / Headset Modes group box is used to configure the way the speakers or headsets act.

For more information, see, "Audio Options Menu, Speaker" on page 196 or "Audio Options Menu, Headset Mic" on page 188.

Output	Mode
Front Speaker	Switched
Rear Speaker	Disabled
Left Headset (Left)	Always On
Left Headset (Right)	Always On
Right Headset (Left)	Always On
Right Headset (Right)	Always On

FIGURE 56. Audio Options Page - Speaker / Headset Modes Group Box

To configure speaker/headset modes, do the following:

> From the Mode column drop down menu, select the mode for the output desired.

Aux Inputs Group Box

The **Aux Inputs** group box is used to enable or disable the volume control for audio inputs through the front panel encoder. For more information, see "Audio Options Menu, Inputs" on page 191.

IMPORTANT: OMNEO 3 through OMNEO 8 only appear when the Audio Package is purchased, otherwise, they do not display.

Input	Mode
Matrix In	Enabled -
OMNEO 2	Enabled
OMNEO 3	Enabled
OMNEO 4	Enabled
OMNEO 5	Enabled
OMNEO 6	Enabled
OMNEO 7	Enabled
Aux 1	Enabled
Imber of Analog Aux I	nputs 1

FIGURE 57. Audio Options Page – Aux Inputs Group Box

Input Display Column

The Input Display column displays the available inputs that can be enabled or disabled.

Mode Drop Down Menu Column

The Mode drop down column is used to enable and disable he Aux Inputs.

NOTE: OMNEO 4, 6, 8 have the ganged option. You can gang OMNEO 3+4, 5+7, 6, and 7+8

To enable or disable volume control for an input, do the following:

> From the Mode column drop down menu, select Enabled or Disabled next to the desired input.

The **Number of Analog Aux Inputs** drop down menu is used to select the number of auxiliary inputs on the keypanel when the panel has been licensed for OMNEO 3-8.

When the keypanel is licensed for OMNEO 3–8, OMNEO 8 and Aux 1 are multiplexed, meaning you can have one or the other, but not both. The same rule applies to OMNEO 7 and Aux 2; both are muxed and both cannot be used together. Also, you cannot have Aux 2 without Aux 1.

The options available for the OMNEO 3-8:

- Number of Analog Aux = 2, OMNEO 1-6, plus Aux 1-2
- Number of Analog Aux = 1, OMNEO 1-7, plus Aux 1
- Number of Analog Aux = 0, OMNEO 1-8

When a keypanel is not licensed with the Audio Package, meaning it only has OMNEO 1 and 2, then the number of analog aux inputs is the maximum supported by the panel:

- KP-5032/4016 Maximum number of Analog Aux = 2, OMNEO 1-2, plus Aux 1-2
- DKP-4016 Maximum number of Analog Aux = 1, OMNEO 1-2, plus Aux 1
- KP-3016- Maximum number of Analog Aux = 0, OMNEO 1-2
- KP-3016A does not support OMNEO

When changes are made, such as the number of analog aux inputs is changed from 0 to 1, the changes are available but are not displayed until you have exited and reloaded the window.

Mic Options Group Box

The **Mic Options** group box is used to choose how audio is routed to the Preamp Output connector, configure the actions of the Mic Mute key, to enable or disable mic gain on the keypanel, and to configure AEC^1 (Acoustic Echo Cancellation) prioritization on a microphone.

- For further explanation of the available selections for the Mic Preamp Mode drop down menu, see "Audio Options Menu, Preamp Out" on page 195.
- For further explanation of the available selections for the Mic Mute Mode drop down menu, see "Audio Options Menu, Mic Mute" on page 194.
- For further explanation of the available selections for the Mic Gain Adjust Source drop down menu, see "Audio Options Menu, Mic Gain" on page 193.
- For further explanation of the available selection for the AEC Mic Priority drop down menu, see "AEC" on page 174.

Mic Options
Mic Preamp Mode Switched
Mic Mute Mode Toggle
Mic Gain Adjust Source Front Panel Mic -
AEC Mic Priority Front

FIGURE 58. Audio Options Page – Mic Options Group Box

To **configure mic options**, do the following:

- 1. From the Mic Preamp Mode drop down menu, select Switched, Hot, Disabled, or Inverted.
- 2. From the Mic Mute Mode drop down menu, select **Disabled**, **Toggle**, or **Momentary**.
- 3. From the Mic Gain Adjust Source drop down menu, select the mic gain adjust source.
- 4. From the AEC Mic Priority drop down menu, select **front** or **rear**.

^{1.} AEC is used to prevent feedback from occurring between the microphone and the speaker.

Matrix Out and Sidetone Options Group Box

The **Matrix Out and Sidetone Options** group box is used to select whether audio from the selected active mic goes out to the Matrix when a talk key is active (NORMAL mode) or audio goes out the Matrix without regard to the talk key state (HOT MIC mode) and at what output level to send it.

Also, from this group box, configure the mode and level at which the user hears their own voice. For more information, see, "Audio Options Menu, Sidetone" on page 196.

Matrix Out and Sidetone Options
Matrix Output Mode Switched
Matrix Output Level 8 📩 db
Sidetone Mode Switched
Sidetone Level -20 db

FIGURE 59. Audio Options Page – Matrix Out and Sidetone Options Group Box

To configure the matrix output mode and level, do the following:

- 1. From the Matrix Output Mode, select Switched or Hot Mic.
- 2. Using the Matrix Output Level scroll box, adjust the **output level** as desired.

To configure the sidetone mode and level, do the following:

- 1. From the Sidetone Mode, select Switched, Always On, or Disabled.
- 2. Using the Sidetone Level scroll box, adjust the Sidetone level as desired.

Headset Configuration Group Box

The **Headset Configuration** group box is used to define the microphone type – Auto-detect, Dynamic, or Electret. Also from this group box, you configure Auto-Transfer and Auto-Mute.

For more information, see "Type" on page 189, "Auto-Transfer" on page 190, "Auto-Mute" on page 188

Headset	Mic Type		Mic Auto-Mute	Headset Auto-Transfer
Left Headset	Auto Detect	-	X	X
Right Headset	Auto Detect		×	×
Headset Transfer A	Active			

FIGURE 60. Audio Options Page - Headset Configuration Group Box

To configure a headset, do the following:

- 1. From the Mic Type column drop down menu, select Auto Detect, Dynamic, or Electret.
- 2. Select the Mic Auto-Mute check box to automatically mute mic input when a headset mic is not detected.
- 3. Select the **Headset Auto-Transfer check box** to allow the keypanel to automatically enter or leave headset mode when a headset is installed or removed.
- 4. Select the Headset Transfer Active check box to make the headset active.

Ganged Volume Group Box

The **Ganged Volume** group box is used to set what happens when adjusting the volume for a ganged channel pair when the volumes are not identical and one (1) of the volumes reaches the minimum or maximum level.

For more information on the available selections, see "Audio Options Menu, Ganged Vols" on page 188.

Ganged Volumes
Ganged Volume Mode Disappearing
Ganged Speaker Volume Control
Ganged Headset Volume Control

FIGURE 61. Audio Options Page - Ganged Volumes Group Box

To configure ganged volumes, do the following:

- 1. From the Ganged Volume Mode drop down menu, select Disappearing or Fixed.
- 2. Select the Ganged Speaker Volume Control check box to enable the speaker volumes to be ganged.
- 3. Select the Ganged Headset Volume Control check box to enable the headset volumes to be ganged.

Tone Generator Group Box

The **Tone Generator** group box is used to define the tone frequency. The tone generator is used to check the audio path from the keypanel to the matrix.

Available selections for this menu are:

500Hz Tone (default)

1kHz Tone

Tone Generator	
Tone Frequency 500 Hz	

FIGURE 62. Audio Options Page – Tone Generator Group Box

To configure the tone generator, do the following:

> From the Tone Frequency drop down menu, select 500 Hz or 1000 Hz.

VM Options Group Box

The VM Options group box is used to configure voice messaging playback options and recording options.

For more information, see "Audio Options Menu, VM Options (Audio Package Only)" on page 198.

VM Options	
Isolate During Playback	
When Mailbox Full Reject New	•
Auto-Record Disabled	•

FIGURE 63. Audio Options Page – VM Options Group Box

To configure voice messaging options, do the following:

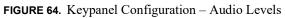
- 1. Select the **Isolate During Playback check box** to remove all other audio from the speaker or headset when playing back voice messages.
- 2. From the When Mailbox Full drop down menu, select Reject New or Delete Oldest.
- 3. From the Auto-Record drop down menu, select Disabled or Rolling Buffer.

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Audio Levels Page

IMPORTANT: OMNEO 3 through OMNEO 8 only appear when the Audio Package is purchased, otherwise, they do not display.

nput Voumes		Minimum Input Volumes -		Chime Volumes		
Input	Volume	Input	Volume	Chime	Volume	
Front Panel Mic	0 dB 🌲	Matrix In	-6 dB 🗘	System Chime #1	-20 dB 🔶	
Rear Panel Mic	0 dB	OMNEO 2	Mute	System Chime #2	-20 dB	
Matrix In	-6 dB	OMNEO 3	Mute	System Chime #3	-20 dB	
OMNEO 2	0 dB	OMNEO 4	Mute	System Chime #4	-20 dB	
OMNEO 3	0 dB	OMNEO 5	Mute	System Chime #5	-20 dB	
OMNEO 4	0 dB	OMNEO 6	Mute	System Chime #6	-20 dB	
OMNEO 5	0 dB	OMNEO 7	Mute	System Chime #7	-20 dB	
OMNEO 6	0 dB	Aux 1	Mute	System Chime #8	-20 dB	
OMNEO 7	0 dB			System Chime #9	-20 dB	
Left Headset Mic	0 dB	,		System Chime #10	-20 dB	
Right Headset Mic	0 dB			System Chime #11	-20 dB	
Aux 1	0 dB			System Chime #12	-20 dB	
				User Chime #1	-20 dB	
				User Chime #2	-20 dB	
Output Volumes		Minimum Output Volumes		User Chime #3	-20 dB	
				User Chime #4	-20 dB	
Output	Volume	Output	Volume			
Front Speaker	3 dB 🔶	Front Speaker	Mute 🔶	Chime Preview		
Rear Speaker	0 dB	Rear Speaker	Mute			
Left Headset		Left Headset				
Right Headset	0 dB	Right Headset	Mute			
Output Dim Amounts		Maximum Output Volumes		7		
Output	Dim Amount	Output	Volume			
Front Speaker	-8 dB 🔶	Front Speaker	10 dB 🔶			
Rear Speaker	-8 dB	Rear Speaker	10 dB			
Left Headset	0 dB	Left Headset	10 dB			
Right Headset	0 dB	Right Headset	10 dB			



Input Volumes Group Box

The Input Volumes group box is used to adjust the current volume, in dB, for all input sources.

IMPORTANT: OMNEO 3 through OMNEO 8 only appear when the Audio Package is purchased, otherwise, they do not display.

The range for this field is *Mute and -48dB* to *10dB*. The default setting is *0dB*.

Input	Volume
Front Panel Mic	0 dB 🛁
Rear Panel Mic	0 dB
Matrix In	-6 dB
OMNEO 2	0 dB
OMNEO 3	0 dB
OMNEO 4	0 dB
OMNEO 5	0 dB
OMNEO 6	0 dB
OMNEO 7	0 dB
Left Headset Mic	0 dB
Right Headset Mic	0 dB
Aux 1	0 dB

FIGURE 65. Audio Levels Page – Input Volumes Group Box

To configure input volumes, do the following:

> Using the Volume column spin box, adjust the **volume** for the input desired.

Output Volumes Group Box

The **Output Volumes** group box is used to set the volume level, in dB, for outputs at the keypanel. This is the volume level available when using the Main Volume control knob, located on the front of the keypanel

Output	Volume
Front Speaker	3 dB 🗘
Rear Speaker	0 dB
Left Headset	0 dB
Right Headset	0 dB

FIGURE 66. Audio Levels Page – Output Volumes Group Box

To configure output volumes, do the following:

> Using the Volume column spin box, adjust the volume for the output desired.

Output Dim Amounts Group Box

The Output Dim Amounts group box is used to set how much the output is dimmed when a talk key is pressed..

Output	Dim Amour	nt
Front Speaker	-8 dB	+
Rear Speaker	-8 dB	
Left Headset	0 dB	
Right Headset	0 dB	

FIGURE 67. Audio Levels Page – Output Dim Amounts Group Box

To configure output dim amounts, do the following:

> Using the Volume column spin box, adjust the **output dim** for the output desired.

Minimum Input Volumes Group Box

The **Minimum Input Volume** group box is used to set the minimum volume level, in dB, for different sources on the keypanel. This is the minimum volume level available when using the Aux Volume control knob, located on the front of the keypanel.

IMPORTANT: OMNEO 3 through OMNEO 8 only appear when the Audio Package is purchased, otherwise, they do not display.

The range for this field is *Mute and -48dB* to *10dB*.

By default, this field for Matrix In is set to -6dB; all other inputs are set to Mute.

Input	Volume
Matrix In	-6 dB 🗘
OMNEO 2	Mute
OMNEO 3	Mute
OMNEO 4	Mute
OMNEO 5	Mute
OMNEO 6	Mute
OMNEO 7	Mute
Aux 1	Mute

FIGURE 68. Audio Levels Page – Minimum Input Volumes

To configure input volumes, do the following:

> Using the Volume column spin box, adjust the volume for the input desired.

Minimum Output Volumes Group Box

The **Minimum Output Volume** group box is used to set the minimum volume level, in dB, for different outputs on the keypanel. This is the minimum volume level available when using the Main Volume control knob, located on the front of the keypanel.

Output	Volume
Front Speaker	Mute 🔶
Rear Speaker	Mute
Left Headset	Mute
Right Headset	Mute

FIGURE 69. Audio Levels Page – Minimum Output Volumes Group Box

To configure the minimum output volumes, do the following:

> Using the Volume column spin box, adjust the **minimum volume** for the output desired.

Maximum Output Volumes Group Box

The **Maximum Output Volumes** group box is used to set the maximum level, in dB, of the volume the user can configure for a headset or a speaker. This feature prevents incoming audio from being too loud.

The range for this field is *Mute and -48dB* to *10dB*. The default setting is *10dB*.

laximum Output Volume: Output	Volume
Output	volume
Front Speaker	10 dB 🌲
Rear Speaker	10 dB
Left Headset	10 dB
Right Headset	10 dB

FIGURE 70. Audio Levels Page – Maximum Output Volumes Group Box

To configure maximum output volumes, do the following:

> Using the Volume column spin box, adjust the **maximum volume** for the output desired.

Chime Volumes Group Box

The **Chime Volumes** group box is used to set the volume for each of the built-in chimes, as well as to enable or disable preview of chimes during chime selection in this menu and others that reference chimes.

For a description of the range of volumes available, see "Audio Options Menu, Chime" on page 187.

Chime	Volume
System Chime #1	-20 dB
System Chime #2	-20 dB
System Chime #3	-20 dB
System Chime #4	-20 dB
System Chime #5	-20 dB
System Chime #6	-20 dB
System Chime #7	-20 dB
System Chime #8	-20 dB
System Chime #9	-20 dB
System Chime #10	-20 dB
System Chime #11	-20 dB
System Chime #12	-20 dB
User Chime #1	-20 dB
User Chime #2	-20 dB
User Chime #3	-20 dB
User Chime #4	-20 dB

FIGURE 71. Audio Levels Page – Chime Volumes Group Box

IMPORTANT: User Chimes are only present when the Audio Package is installed.

To configure chime volumes, do the following:

- 1. From the Volume column spin box, adjust the volume for the System or User Chime desired.
- 2. Select the **Chime Preview check box** to hear a preview of the chime on the keypanel each time a new chime is selected or while the volume is being adjusted.

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Advanced Page

IMPORTANT: OMNEO 3 through OMNEO 8 only appear when the Audio Package is purchased; otherwise, they do not display.

iC								_	- Г	Jomp	ressio					Noise Gate			
Mic	Att	ack 1	Time		Dec	ay Tì	me					Mic		Ratio		Inp	ut	Threshold	
Front Panel Mic	1	msec		•	50	0 mse	c				Front	Pan	lic	3:1	•	Front Pa	inel Mic	Disabled	•
Rear Panel Mic		1 mse	c		50	0 mse	c				Rear	Pan	lic	3:1		Rear Pa	inel Mic	Disabled	
Left Headset Mic		1 mse	c		50	0 mse	c			l	Left H	leads	Mic	3:1		Left Hea	dset Mic	Disabled	
Right Headset Mic		1 mse	c		50	0 mse	c			R	light H	Head	Mic	3:1		Right Hea	adset Mic	Disabled	
ang														Gating				7	
													-		Input	Thresho	ld		
										0	io.				Panel Mic	Disabled	-		
	<u>N</u>	<u>di</u>								Σ	et⊳				Panel Mic	Disable			
	le le	E		N	m	4	s	6	~	dse	ads			M	atrix In	Disable	±		
	Pa Ba	Par		B	B	B	B	B	B	Lea	Ŧ			0	INEO 2	Disable	ł		
	Front Panel Mic	Rear Panel Mic	Matrix In	OMNEO 2	OMNEO	OMNEO 4	OMNEO 5	OMNEO 6	OMNEO	Left Headset Mic	Right Headset Mic	Aux 1		01	INEO 3	Disable	ł		
	ш	ſ₩.	≥	0	0	0	0	0	0	2	Ľ.	◄		01	INEO 4	Disable	ł		
Front Speaker		П			П	П		П						01	INEO 5	Disable	ł		
Rear Speaker		Π						Π						01	INEO 6	Disable	đ		
To Matrix											_			01	INEO 7	Disabled	ł		
Preamp Out														Left H	eadset Mic	Disabled	ł		
OMNEO 2														Right H	leadset Mic	Disable	ł		
Left Headset (Left)		Π			П	Π		П							Aux 1	Disable	ł		
Left Headset (Right)					П														
Right Headset (Left)														,					
Right Headset (Right)																			
Nix Mode Switched	-																		

FIGURE 72. Keypanel Configuration – Advanced

AGC Group Box

The AGC (Automatic Gain Control) group box is used to set the speed at which a microphone becomes active and the speed at which a sustainable level is achieved through the use of the Attack menu and the Decay menu. You can set these levels for the front, rear, and headset microphones used with the keypanel. For information on available selections, see"AGC" on page 174.

Mic	Attack Time	Decay Time
Front Panel Mic	1 msec 🔹	500 msec
Rear Panel Mic	1 msec	500 msec
Left Headset Mic	1 msec	500 msec
Right Headset Mic	1 msec	500 msec

FIGURE 73. Advanced Page – AGC Group Box

To configure AGC, do the following:

- 1. From the Attack Time column drop down menu, select the speed to configure for Attack (microphone is active).
- 2. From the Decay Time column drop down menu, select the speed to configure for Decay (microphone is at sustainable level).

Mixing Group Box

The **Mixing** group box allows you to route selected input audio signals to different destinations. For a complete list of destinations and more information, see "Mixing" on page 184.

IMPORTANT: OMNEO 3 through OMNEO 8 only appear when the Audio Package is purchased, otherwise, they do not display.

Mixing													
	Front Panel Mic	Rear Panel Mic	Matrix In	OMNEO 2	OMNEO 3	OMNEO 4	OMNEO 5	OMNEO 6	OMNEO 7	Left Headset Mic	Right Headset Mic	Aux 1	
Front Speaker													
Rear Speaker													
To Matrix													
Preamp Out													
OMNEO 2													
Left Headset (Left)													
Left Headset (Right)													
Right Headset (Left)													
Right Headset (Right)													
Mix Mode Switched	•												
Switched													
Always On													

FIGURE 74. Advanced Page – Mixing Group Box

To mix inputs and outputs, do the following:

- 1. Using both axis lists, select the check boxes that correlate to the inputs and outputs you want to mix.
- 2. From the Mix Mode drop down menu, select Switched or Always On.

For more information on Mix Mode, see "Mix Mode" on page 186.

IMPORTANT: Not every input can be mixed to every output. Check boxes are not present for mixes that cannot be set here. Some mixes are made using the Headset/Speaker and Headset Mic/Panel Mic menus when setting the modes to Always On/ Enabled, Disabled, or Switched.

Compression Group Box

The **Compression** group box is used to change the audio's gain, meaning audio above the noise gate threshold is changed according to the compression ratio selected. The compression is used to change the dynamic range of the mic input. This means loud sounds are softened; while soft sounds are amplified.

IMPORTANT: Compression ratios 4:1, 5:1, and 6:1 are only available with the purchase of the Audio Package. For more information, see "Audio and Control Packages" on page 275.

For more information on compression values available, see "Compression" on page 176.

Mic	Ratio	
Front Panel Mic	3:1	-
Rear Panel Mic	1:1	
Left Headset Mic	2:1	
Right Headset Mic	4:1	

FIGURE 75. Advanced Page – Compression Group Box

To configure compression on a microphone, do the following:

> From the Ratio column drop down menu, select the **compression ratio** desired.

Gating Group Box

The **Gating** group box is used to minimize or eliminate background noise problems by shutting off an audio source when the audio level drops below a certain threshold.

IMPORTANT: OMNEO 3 through OMNEO 8 only appear when the Audio Package is purchased, otherwise, they do not display.

The range for the gating threshold is -17dB to +18dB, and *Disabled*. By default, the gating threshold is set to *Disabled*.

Input	Threshold
Front Panel Mic	Disabled 🔶
Rear Panel Mic	Disabled
Matrix In	Disabled
OMNEO 2	Disabled
OMNEO 3	Disabled
OMNEO 4	Disabled
OMNEO 5	Disabled
OMNEO 6	Disabled
OMNEO 7	Disabled
Left Headset Mic	Disabled
Right Headset Mic	Disabled

FIGURE 76. Advanced Page – Gating Group Box

To configure gating on an input, do the following:

> Using the Threshold column enable and set the threshold you desire for the input of your choice.

Noise Gate Group Box

The Noise Gate menu is used to enable, disable or adjust (if licensed) the audio level at which the mic turns on.

If not licensed, noise gate can be enabled or disabled. When enabled, microphone noise gate is set to -72dBu; when the noise gate is disabled, the microphone is always on.

If licensed for the Audio Package, you have the ability to adjust the threshold level of the noise gate, giving you more flexibility configuring the noise gate.

Available options are: *Disabled*, -87 dBu, -84 dBu, -81 dBu, -78 dBu, -75 dBu, -72 dBu, -69 dBu, -66 dBu, -63 dBu, -60 dBu, -57 dBu, -54 dBu, -51 dBu, -48 dBu, or -42 dBu.

For more information, see "Noise Gate" on page 186.

Input	Threshold
Front Panel Mic	Disabled -
Rear Panel Mic	Disabled
Left Headset Mic	Disabled
Right Headset Mic	Disabled

FIGURE 77. Advanced Page – Noise Gate Group Box

To enable and adjust the noise gate, do the following:

> Using the scroll box in the Threshold column, enable and set the threshold for the input desired.

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Filters Page

The **Filters** page is used to add input and output bandpass filters, frequency response (equalization) filters or notch filters to one (1) or more audio sources.

IMPORTANT:

OMNEO 3 through OMNEO 8 only appear when the Audio Package is purchased, otherwise, they do not display.

put Bandpass Filters				Input Equalization Filters					
Input	Enabled	Low Freq	High Freq	Input	Enabled	Preset	Low Freq	High Freq	Gains
OMNEO 2		0 Hz	22 kHz	Front Panel Mic	×		50 Hz	12.6 kHz	<edit></edit>
OMNEO 3		0 Hz	22 kHz	Rear Panel Mic	×		50 Hz	12.6 kHz	<edit></edit>
OMNEO 4		0 Hz	22 kHz	Matrix In			15.6 Hz	20 kHz	<edit></edit>
OMNEO 5		0 Hz	22 kHz	Left Headset Mic	×		50 Hz	12.6 kHz	<edit></edit>
OMNEO 6		0 Hz	22 kHz	Right Headset Mic	×		50 Hz	12.6 kHz	<edit></edit>
OMNEO 7		0 Hz	22 kHz						
OMNEO 8		0 Hz	22 kHz						
utput Bandpass Filters —				-Output Equalization Filter	rs				
Output	Enabled	Low Freq	High Freq	Output	Enabled	Preset	Low Freq	High Freq	Gains
To Matrix		0 Hz	22 kHz	Front Speaker			15.6 Hz	20 kHz	<edit></edit>
Preamp Out		0 Hz	22 kHz	Rear Speaker			15.6 Hz	20 kHz	<edit></edit>
OMNEO 2		0 Hz	22 kHz						
VM Playback		0 Hz	22 kHz						
Left Headset (Left)		0 Hz	22 kHz						
Left Headset (Right)		0 Hz	22 kHz						
Right Headset (Left)		0 Hz	22 kHz						
Right Headset (Right)		0 Hz	22 kHz						
tch Filter Mode Disable	d 🚽								
,									

FIGURE 78. Keypanel Configuration – Filters Page

Input Bandpass Filters Group Box

The **Input Bandpass Filters** group box is used to enable bandpass filters which set a low and high frequency range where frequencies within the two (2) frequency points are passed and anything outside of the range is rejected.

IMPORTANT: OMNEO 3 through OMNEO 8 only appear when the Audio Package is purchased, otherwise, they do not display.

Input	Enabled	Low Freq	High Freq
OMNEO 2		0 Hz	22 kHz
OMNEO 3		0 Hz	22 kHz
OMNEO 4		15.6 Hz 31.5 Hz	22 kHz
OMNEO 5		50 Hz	22 kHz
OMNEO 6		0 Hz	22 kHz
OMNEO 7		0 Hz	22 kHz
Aux 1		0 Hz	22 kHz

FIGURE 79. Filters Page – Input Bandpass Filters Group Box

To configure input bandpass filters, do the following:

- 1. Select the Enabled column check box for the input you want to set a bandpass filter.
- 2. From the Low Freq column drop down menu, select the low frequency you desire.
- 3. From the High Freq column drop down menu, select the high frequency you desire.

Output Bandpass Filters Group Box

The **Output Bandpass Filters** group box is used to enable bandpass filters which set a low and high frequency range where frequencies within the two (2) frequency points are passed and anything outside of the range is rejected.

Output	Enabled	Low Freq	High Freq
To Matrix	×	0 Hz	22 kHz 🔻
Preamp Out		0 Hz	22 kHz
OMNEO 2		0 Hz	16 kHz 8 kHz
VM Playback		0 Hz	4 kHz
Left Headset (Left)		0 Hz	22 kHz
Left Headset (Right)		0 Hz	22 kHz
Right Headset (Left)		0 Hz	22 kHz
Right Headset (Right)		0 Hz	22 kHz

FIGURE 80. Filters Page – Output Bandpass Filters Group Box

To configure output bandpass filters, do the following:

- 1. Select the Enabled column check box for the input you want to set a bandpass filter.
- 2. From the Low Freq column drop down menu, select the low frequency you desire.
- 3. From the High Freq column drop down menu, select the high frequency you desire.

Input Equalization Filters Group Box

Equalization allows the user to select predefined settings that modify the frequency envelope of an audio channel. This is a 5-band equalizer. Each preset provides a different EQ to be applied to the audio.

For more information on available options, see "Equalization" on page 178.

IMPORTANT: Included in the purchased audio package, is an adjustable 5-band equalizer giving you the ability adjust the low and high frequency cutoff filters and the gain for each band. This feature is in addition to the preset frequencies that comes standard on the keypanel. If the audio package is not purchased the high, low frequency and band gains all display as read only.

Input	Enabled	Preset	Low Freq	High Freq	Gains
Front Panel Mic	×	Noise Reduction	50 Hz	12.6 kHz	<edit></edit>
Rear Panel Mic	×	Noise Reduction	50 Hz	12.6 kHz	<edit></edit>
Matrix In		Dofoult	15 C U ₂		<edit></edit>
Left Headset Mic	x E	Q Band Gains		2.6 kHz	<edit></edit>
Right Headset Mic	×	Band	Gain	2.6 kHz	<edit></edit>
		1	-4 dB	-	
		2	0 dB	ind .	
		3	0 dB		
		4	-6 dB		
		5	-80 dB		
		ОК	Cancel	1	

FIGURE 81. Filters Page – Input Equalization Filters Group Box

To configure the input equalization filters, do the following:

- 1. Select the Enabled column check box next to the input you want to filter.
- 2. From the Preset column drop down menu, select the preset you want to use, if desired.

IMPORTANT: You can only change the frequencies and gains if licensed.

- 3. From the Low Freq column drop down menu, select the low frequency you desire.
- 4. From the High Freq column drop down menu, select the high frequency you desire.
- 5. Click the Gain column browse button . *The Band Gain window appears.*
- 6. Using the Gain scroll box, adjust the gain for the appropriate band.
- 7. Click OK.

Output Equalization Filters Group Box

Equalization allows the user to select predefined settings that modify the frequency envelope of an audio channel. This is a 5-band equalizer. Each preset provides a different EQ to be applied to the audio.

For more information on available options, see "Equalization" on page 178.

IMPORTANT: Included in the purchased audio package, is an adjustable 5-band equalizer giving you the ability adjust the low and high frequency cutoff filters and the gain for each band. This feature is in addition to the preset frequencies that comes standard on the keypanel.

Output	Enabled	Preset	Low Freq	High Freq	Gains	
Front Speaker	X	Hiss Reduction	15.6 Hz	12.6 kHz	<edit></edit>	
Rear Speaker		Rumble Reduction	50 Hz	20 kHz	<edit:< td=""></edit:<>	
	EQ Ba	nd Gains	Cain			
		Band	Gain			
		1	3 dB 🌲			
		2	0 dB			
		3	0 dB			
		4	-6 dB			
		5	-6 dB			
		ОК	Cancel			

FIGURE 82. Filters Page – Output Equalization Filters Group Box

To configure the output equalization filters, do the following:

- 1. Select the Enabled column check box next to the output you want to filter.
- 2. From the Preset column drop down menu, select the preset you want to use, if desired.

IMPORTANT: You can only change the frequencies and gains if licensed.

- 3. From the Low Freq column drop down menu, select the low frequency you desire.
- 4. From the High Freq column drop down menu, select the high frequency you desire.
- 5. Click the Gain column browse button . The Band Gain window appears.
- 6. Using the Gain scroll box, adjust the gain for the appropriate band.
- 7. Click OK.

Notch Filter Mode

The **Notch** filter allows you to add a notch to the Matrix In source - either AIO or OMNEO channel 1. This can be useful when the keypanel data port signal is being heard in the audio line due to cable routing problems.

For descriptions of the available selections, see "Notch" on page 181.

By default, the notch filter is set to *Disabled*.

	Input	Enabled	Low Freq	High Freq	
-	OMNEO 2		0 Hz	22 kHz	
	OMNEO 3		0 Hz	22 kHz	
-	OMNEO 4		0 Hz	22 kHz	
-	OMNEO 5		0 Hz	22 kHz	
-	OMNEO 6		0 Hz	22 kHz	R
-	OMNEO 7		0 Hz	22 kHz	
-	OMNEO 8		0 Hz	22 kHz	
Out	Output	Enabled	Low Freq	High Freq	Outpu
Out	Output To Matrix	Enabled	Low Freq 0 Hz	High Freq 22 kHz	
-Out	Output To Matrix Preamp Out	Enabled	0 Hz 0 Hz	22 kHz 22 kHz	
	Output To Matrix	Enabled	0 Hz	22 kHz	
-Out	Output To Matrix Preamp Out	Enabled	0 Hz 0 Hz	22 kHz 22 kHz	
- Out	Output To Matrix Preamp Out OMNEO 2	Enabled	0 Hz 0 Hz 0 Hz	22 kHz 22 kHz 22 kHz	
-Out	Output To Matrix Preamp Out OMNEO 2 VM Playback		0 Hz 0 Hz 0 Hz 0 Hz	22 kHz 22 kHz 22 kHz 22 kHz 22 kHz	
-Out	Output To Matrix Preamp Out OMNEO 2 VM Playback Left Headset (Left)		0 Hz 0 Hz 0 Hz 0 Hz 0 Hz	22 kHz 22 kHz 22 kHz 22 kHz 22 kHz 22 kHz	
	tput Bandpass Filters —				0
-Out					
Out		Enabled	Low Freq	High Freq	
Out	Output	Enabled			
-Out	Output To Matrix	Enabled	0 Hz	22 kHz	
- Out	Output To Matrix Preamp Out	Enabled	0 Hz 0 Hz	22 kHz 22 kHz	
- Out	Output To Matrix Preamp Out	Enabled	0 Hz 0 Hz	22 kHz 22 kHz	
-Out	Output To Matrix Preamp Out OMNEO 2	Enabled	0 Hz 0 Hz 0 Hz	22 kHz 22 kHz 22 kHz	
-Out	Output To Matrix Preamp Out OMNEO 2	Enabled	0 Hz 0 Hz 0 Hz	22 kHz 22 kHz 22 kHz	
-Out	Output To Matrix Preamp Out OMNEO 2 VM Playback		0 Hz 0 Hz 0 Hz 0 Hz	22 kHz 22 kHz 22 kHz 22 kHz 22 kHz	
-Out	Output To Matrix Preamp Out OMNEO 2 VM Playback Left Headset (Left)		0 Hz 0 Hz 0 Hz 0 Hz 0 Hz	22 kHz 22 kHz 22 kHz 22 kHz 22 kHz 22 kHz	
-Out	Output To Matrix Preamp Out OMNEO 2 VM Playback Left Headset (Left) Left Headset (Right)	Enabled	0 Hz 0 Hz 0 Hz 0 Hz 0 Hz	22 kHz 22 kHz 22 kHz 22 kHz 22 kHz 22 kHz	
-Out	Output To Matrix Preamp Out OMNEO 2 VM Playback Left Headset (Left) Left Headset (Right)	Enabled	0 Hz 0 Hz 0 Hz 0 Hz 0 Hz 0 Hz 0 Hz	22 kHz 22 kHz 22 kHz 22 kHz 22 kHz 22 kHz 22 kHz	

FIGURE 83. Filters Page – Notch Filter Mode Selection

To set the notch filter, do the following:

> From the Notch Filter Mode drop down menu, select **Disabled**, **Narrow**, **Default**, or **Wide**.

chapter 4 *Firmware Download*

NOTE: The instructions provided below are shown using the KP-5032, but are applicable for all family keypanels.

Download Firmware to the DKP-4016/4016W From AZedit

To download firmware to the keypanel, do the following:

- 1. Open AZedit.
- 2. From the Status menu, select **Port**. *The Port Status window appears.*
- 3. Find the **port number** where the DKP-4016/4016W is assigned.

AZedit - [ONLINE] - Keypa File Online Authentication	_	n Information View System	Alphas	Status	Opti	ions La
E III III IIII IIII IIIIIIIIIIIIIIIIII	B SLs SL	s RYs IS	•ම ¥K Os GPIs € X	UPL	URs	AGRPS
🊈 PAT 🗋 New	🗃 Oper	n 🖻 Merge	Save	💾 Sav	e As	🔡 Part
Port 🛆	Alpha		Version			
001	N001		n/a			
002 003	N N	Info		×		
004	N	Download fire	mware			
005	N	Download for	nt			
006	N					
007	N007		n/a			
008	N008		n/a			
009	N009		n/a			
010	N010		n/a			
	N011		n/a			

- 4. Highlight the Port (keypanel) to be updated. You may select more than one (1) at a time by holding CTRL key down while you select.
- 5. Right-click the highlighted selections. *A popup menu appears.*
- 6. Select **Download firmware...**. *The Firmware Download window appears*.
- 7. Using the browse button, browse to the **file to be downloaded**.

8. Click Open.

The Download Device Firmware window appears.

Download Device Firm	? 💌	
Download Information Type of Download: Selected Device(s): File to download:	Keypanel 8 KP-Series_Client_z.mot	Begin Download Cancel
Download Status		

9. Click Begin Download.

The download begins.

Do	wnload Device Firmware
	Download Information
AZedit	×
(į)	AZedit has successfully completed sending the firmware. However, it may still be being delivered to the target device(s).
	Please use the Software Version screens to verify the success of the download before removing or re-powering the target device(s).
	OK]
	100% OK

10. Click OK.

The DKP-4016/4016W firmware download finishes.

NOTE:

- This can take up to 2 minutes to complete if connected via OMNEO and up to 15 minutes to complete if connected via AIO. Use the Keypanel Version Information window to follow the progress of the download. Also, the keypanel displays Firmware Download on the panel display until the download is complete.
- The DKP-4016/4016W resets itself once the firmware download is complete and the flash reprogrammed.
- While the firmware is downloading, chunk progress is displayed by incremental blocks. Also, the keypanel displays an icon warning not to turn off the panel while the flash is being reprogrammed.

11. In the Keypanel Version Information window, verify the version upgrade.

	AZedit - [O	NLINE] - Keypanel	Version Information
Fi	le Online	Authentication	Edit View System Alphas Status Options Logging Help
	D 🖻 🗎	🖬 🎒 💉 🖷	🚰 🧢 🗶 💁 🗠 🥒 🐇 🖻 💼 Q, 🎽 🕶 F 🗸 🗰 🕪 🗠 🖓
	Port /	Alpha	Version
	124	124	n/a
1	125	125	n/a
	126	126	n/a
	127	127	n/a
	128	128	DKP-4016 VERSION 1.2.0, FEB 3 2016, CRC=D9EF
	129	129	KP-32, VERSION 2.0.7 (APR 04 2006) U2=0ABE U3=F
	130	130	n/a
	131	131	n/a
	132	132	n/a
	133	133	n/a
	134	134	n/a

Download Firmware to the Keypanel Using the Firmware Upload Tool

Required Firmware version:

FWUTV4.2.0 or later

To download firmware to the keypanel, do the following:

- 1. Open the Firmware Upload Tool.
- 2. From the File menu, select **Options**. *The Firmware Upload Tool Options window appears*.

View Help							
MNEO Firmwa	re Upload To	ol					
						_	
vices del 2060 OKP Device							
evice name	Domain name	Serial number	IP address	MAC address	Version	State	Progress
-4016x-CAP6-01640	irmware Upload Too	Options		*****	-	-	×
	Firmware images Image folder		nes\03_Sources_E	retling\OMNEO_Sourc	es\CAPFW_Cre	ation\OKP	Device Change
	Uploading Maximum numbe	r of concurrent uploads	20 🔹				
	Security key	default	Ţ	Manage security k	eys		

- **3.** Click the **Change button**. *The folder network window appears.*
- 4. Navigate to the folder where the firmware resides.

- 5. Click OK.
- 6. Click OK, again.

The Firmware Upload Tool Options window closes.

7. From the OKP Device page, select the **device** you want to update.

OMNEO Firmware Upload	Tool	-		Concession in	-		-	-
File View Help								
OMNEO Firmwar	e Upload To	ol						BC
Devices Model 2060 OKP Device								
Device name	Domain name	Serial number	IP address	MAC address	Version	State	Progress	
KP-4016x-CAP6-016405	local.	0x5895945705012001	192.168.5.21	00:1C:44:01:64:05	1.00.0000	Idle	6	
OKPDevice	local.	0x000000000000013	192.168.5.19	00:1C:44:00:8E:0D	4.00.0001	Idle		1

8. Click the Upload button.

The Select Firmware for Upload window appears.

9. From the list of firmware, select the firmware you want to download.

		OMNEO Firmware Upload Tool			
	F	ile View Help			
		OMNEO Firmware Up	load '	[ool	BOSCH
Select firmware fo	or upload	inema .			
Available firmwa	are				
Model name	Version	Description	Size	File name	
OKP Device	1.0.0	Firmware files for the OKP Device	5 MB	D:\Projects\Brandenberg_Maint\branches\03_Sources_Breitling\OMNEO_Sources\CA	FW_Creation\OKPDevice\OKP_Device capfw
OKP Device	1.0.0	Firmware files for the OKP Device	84 kB	D:\OMNEO_Sources\CAPFW_Creation\OKPDevice\OKP_DeviceBootloader.capfw	
OKP Device	1.0.0	Firmware files for the OKP Device	863 kB	D:\OMNEO_Sources\CAPFW_Creation\OKPDevice\OKP_DeviceClient.capfw	
OKP Device	1.1.34	Firmware files for the OKP Device	5 MB	D:\OMNEO_Sources\CAPFW_Creation\OKPDevice\OKP_DeviceComplete.capfw	
OKP Device	1.0.0	Firmware files for the OKP Device	4 MB	D:\OMNEO_Sources\CAPFW_Creation\OKPDevice\OKP_DeviceFPGA.capfw	
_					
-					
•				m	•
					Cancel Start
					Upload
	Dis	covered "OKP Device" devices: 2 -	Total n	imber of devices: 6	
		toriota one other dentes a			

10. Click the **Start button**.

11. Once the firmware has been updated, the keypanel reboots automatically.

Enable Downloading New Bootloader from the Keypanel

By default, the keypanel does not allow downloading different bootloader version - this can be enable in the keypanel menu.

To enable the bootloader firmware downloads on the keypanel, do the following:

- 1. While pressing the Main Vol and Aux Vol encoders on the front of the keypanel at the same time, press the **MENU button**. *The main menu appears in the panel display.*
- 2. Using the left and right arrow buttons, select Service.
- **3.** Press the **SEL button**. *The Service menu options appear in the panel display.*
- 4. Using the left and right arrow buttons, select **Boot Code**.
- 5. Press the SEL button. Allow Download and Version X.X.X (where X represents version numbers) appears in the panel display.
- 6. Using the left and right arrow buttons, select Allow Download.
- 7. Press the **SEL button**. *The keypanel now allows download of new bootloader firmware.*
 - **NOTE:** If the keypanel is powered off or loses power, the state of the Allow Download option resets to not enabled. You must reconfigure the option for it to allow new bootloader firmware to be downloaded.

Download Firmware Using the Bootloader

The **Bootloader** is used to upload a new bootloader image or to upgrade the keypanel firmware if it is corrupt or fails and makes downloading of new firmware impossible.

If the keypanel firmware is corrupt, the panel may boot automatically into the bootloader. However, if the keypanel firmware appears valid, but fails to run properly, you may need to force the keypanel into the bootloader in order to download the new firmware.

NOTE: The instructions provided below are shown using the KP-5032 family keypanels.

Run the Bootloader

To run the bootloader, do the following:

- 1. Power off the keypanel.
- 2. Verify the **DKP-4016/4016W is powered off**, but still connected to the FRAME.

3. At the same time, press and hold **keypanel key 15 in the listen position (up) and keypanel key 16 in the talk position (down)**, while you connect the **power cord** to the keypanel.

DKP-4016 - Boot Loader Waiting for download... appears in the panel display.



- **4.** In AZedit, from the Status menu, select **Software Versions**. *The Software Versions popup menu appears*.
- **5.** From the Software Versions popup menu, select **Keypanels**. *The Keypanel Version Information window appears*.

	AZedit - [ON	LINE] - Keypanel	Version Information
F	ile Online <i>i</i>	Authentication	Edit View System Alphas Status Options Logging Help
	D 🖻 🖷 🛛	. 🥔 🖉 🖻	🚰 🧢 🗶 🕰 🗠 🥒 🐰 🖻 💼 Q, 🍑 + F + ቊ 🕪 «E+ 🍫 🛇
	Port △	Alpha	Version
	FOIL	Пирпа	Version
	124	124	n/a
	125	125	n/a
	126	126	n/a
	127	127	n/a
	128	128	DKP-4016 VERSION 1.2.0, FEB 3 2016, CRC=D9EF
	129	129	KP-32, VERSION 2.0.7 (APR 04 2006) U2=0ABE U3=F
	130	130	n/a
	131	131	n/a
	132	132	n/a
	133	133	n/a
	134	134	n/a

6. From the Keypanel Version Information window, find and select the **specified DKP-4016/4016W**.

NOTE: Notice the Version column is showing DKP-4016/4016W Bootloader Version 1.2.0 is shown.

- 7. Right-click on the **DKP-4016/4016W**. *A popup menu appears*.
- 8. From the popup menu, select **Download Firmware...**. *The Firmware Download navigation window appears.*
- 9. Navigate to and select your firmware file (i.e., KP-Series_client_z.mot).
- 10. Click Open.

The Download Device Firmware window appears.

Download Device Firmware	? 🔀
Download Information Type of Download: Keypanel Selected Device(s): 8 File to download: KP-Series_Client_z.mot Download Status Idle	Begin Download Cancel

11. Click Begin Download.

The Download begins and a popup message appears.

- **12.** Click **OK**. *The DKP-4016/4016W firmware download finishes.*
- **NOTE:** This can take up to 15 minutes to complete if connected via AIO. Use the Keypanel Version Information window to follow the progress of the download (the number and percentage of chunks completed). Also, the firmware progression is displayed on the keypanel display until the download is complete.

NOTE: Once the Boot Loader is finished downloading, it reboots itself and reprograms the flash.



Display the FPGA Version on the Keypanel

To display the FPGA version currently installed in the keypanel, do the following:

- 1. While pressing the Main Vol and Aux Vol encoders on the front of the keypanel at the same time, press the **MENU button**. *The main menu appears in the panel display.*
- 2. Using the left and right arrow buttons, select Service.
- **3.** Press the **SEL button**. *The Service menu options appear in the panel display.*
- 4. Using the left and right arrow buttons, select FPGA Version.
- Press the SEL button. Version X.X.X (where X represents the FPGA version numbers) appears in the panel display.

Download and Upgrade the FPGA to the DKP-4016/4016W

There are four (4) phases to upgrading the FPGA on a keypanel:

- Downloading the FPGA firmware to the matrix
- Downloading the FPGA firmware to the keypanel
- Processing the download
- Reprogramming the keypanel

To download the FPGA to the keypanel, do the following:

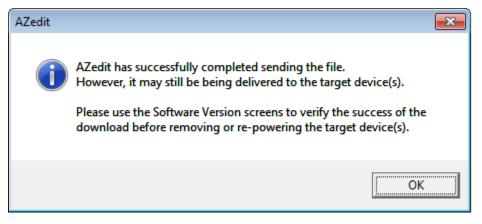
- 1. Open AZedit.
- 2. From the Status menu, select **Software Versions**|**Keypanels**. *The Keypanel Version Information window appears*.
- 3. Find the port number where the DKP-4016/4016W is assigned.
- 4. Highlight the **Port** (keypanel) to be updated. You may select more than one (1) at a time by holding CTRL key down while you select.
- Right-click the highlighted selections. A popup menu appears.
- 6. Select **Download Firmware**. *The Firmware Download window appears*.
- 7. Using the browse button, navigate to the FPGA file you want to use.
- 8. Click Open.

The Download Device Firmware window appears.

Download Device Fi	rmware	? 🔀
Download Informat	ion	Begin Download
Type of Download:	Keypanel	
Selected Device(s)	131	
File to download:	KP-Series-FPGA_v5_0mot	
Download Status -		
		<u>C</u> ancel

9. Click Begin Download.

The download begins. A progress bar appears to show the progress of the download.



10. Click OK.

The DKP-4016/4016W firmware download to the Matrix finishes. The Download FPGA Firmware To The Keypanel begins.

11. Verify the Keypanel Version Information window is displaying the numbers of chunks (of data) transferred to the keypanel.

A	Zedit - [OI	NLINE] - Keypane	l Version Information
Eile	Online	Authentication	<u>E</u> dit <u>V</u> iew <u>Sy</u> stem <u>Alphas</u> S <u>t</u> atus <u>O</u> ptions <u>L</u> ogging <u>H</u> elp
D	🖻 🖷 (🖬 🚳 🖉 🖷	। 🖉 🖉 🗶 🗅 🗠 🥒 🐰 🗞 🛍 🛍 🔍 🎬 🕇 F 🕶 🗰 🔿
P	ort 🛆	Alpha	Version
	112	N112	n/a
	113	N113	n/a
	114	N114	n/a
	115	N115	n/a
	116	N116	n/a
	117	N117	n/a
	118	N118	n/a
	119	N119	n/a
	120	N120	n/a
	121	N121	n/a
	122	N122	n/a
	123	N123	n/a
	124	N124	n/a
	125	N125	n/a
	126	N126	n/a
	127	N127	n/a
	128	N128	n/a
	129	N129	n/a
	130	N130	n/a
	131	N131	Download: Chunk 15 of 72, try 1, 34%
	132	N132	n/a
	133	N133	n/a
	134	N134	n/a
	135	N135	n/a



13. Verify the Keypanel Version Information window displays Processing download on the keypanel port you chose.

11.			
	-		l Version Information
Ei	_	-	Edit View System Alphas Status Options
	0 🖻 🖬 🛛	a 😂 🖉 🖻	🖉 🧖 🗶 🗠 🗠 🥒 🐰 🖻 💼 Q,
			1
	Port 🛆	Alpha	Version
	118	N118	n/a
	119	N119	n/a
	120	N120	n/a
	121	N121	n/a
	122	N122	n/a
	123	N123	n/a
	124	N124	n/a
	125	N125	n/a
	126	N126	n/a
	127	N127	n/a
	128	N128	n/a
	129	N129	n/a
	130	N130	n/a
	131	N131	Processing download
	132	N132	n/a
	133	N133	n/a
	134	N134	n/a

14. Verify the keypanel displays the **Processing Download icon with progression bar**.



Once the keypanel is finished processing the download, the keypanel begins to reprogram. The keypanel flashes a Reprogramming: Do Not Turn Off icon in the display panel. This can take several minutes.



Once the reprogramming is complete, the keypanel reboots.

Download a Splash Screen

IMPORTANT: The maximum bitmap size is 576x172. If the bitmap is smaller than the full screen dimensions, the keypanel centers the bitmap horizontally and vertically on the display and fills the background with the same color as the pixel in the top left corner of the splash screen.

1. Open AZedit.

2. From the Status menu, select **Software Versions**|**Keypanels**. *The Keypanel Version Information window appears*.

- 3. Find the **port number** where the DKP-4016/4016W is assigned.
- Highlight the Port (keypanel) to be updated. You may select more than one (1) at a time by holding CTRL key down while you select.
- **5.** Right-click the **highlighted selections**. *A popup menu appears*.
- 6. Select **Download splash screen...**. *The Splash Screen Download window appears*.
- 7. Click Open.

The Download Splash Screen File window appears.

Download Splash Screen File	8 ×
Download Information Type of Download: Keypanel Selected Device(s): 1 File to download: test.jpg	Begin Download Cancel
Download Status	Panel Size ○ 1RU ⓒ 2RU

8. In the Panel Size group box, select **2RU**.

9. Click Begin Download.

The download begins. A progress bar appears to show the progress of the download. Once the download is complete the Download Splash Screen File window closes. 10. Verify the Keypanel Version Information window is displaying the numbers of chunks (of data) transferred to the keypanel.

A 🛄	Zedit - [Ol	NLINE] - Keypanel Version Information
<u>F</u> ile	0 <u>n</u> line	Authentication Edit View System Alphas Status Options Logging Help
	Ps PLs	IFBS IFB SLS SLS RYS ISOS GPIS UPL URS AGRPS ADS XPTS RV
	i 🖬 🖪	🚭 🛃 😂 🔒 🥹 🗃 🔽 💼 🛠 🛠 📴 🖬 🛛 F+ F- 😫 🖤
	🚈 P	PAT 🗋 New 🖆 Open 🖷 Merge 🔚 Save 🔡 Save As 🔚 Partial 🎒 Print 🗟 Pr
Г	Port 🛆	Alpha Version
	001	N001 n/a
	002	N002 Download: Chunk 9 of 15 try 1, 63%
	003	N003 n/a
	004	N004 n/a
	005	N005 n/a
	006	N006 n/a
	007	N007 n/a
	008	N008 n/a
		N009 n/a

11. Verify the keypanel displays the **Splash Screen Downloading icon with progression bar**. *Once the download is complete, the keypanel has to process the downloaded file.*



Once the keypanel is finished processing the download, the keypanel begins to reprogram. The keypanel flashes a Reprogramming: Do Not Turn Off icon in the display panel. This can take several minutes.



Once the reprogramming is complete, the keypanel reboots.

Download a Font File

- 1. Open AZedit.
- 2. From the Status menu, select **Software Versions**|**Keypanels**. *The Keypanel Version Information window appears*.
- 3. Find the **port number** where the DKP-4016/4016W is assigned.
- **4.** Highlight the **Port** (keypanel) to be updated. *You may select more than one (1) at a time by holding CTRL key down while you select.*
- 5. Right-click the highlighted selections. *A popup menu appears.*
- 6. Select **Download font...**. *The Font Download window appears*.
- 7. Navigate to the font file (.kpf) you want to use.
- 8. Click Open.

The Download Keypanel Font window appears.

1	Download Keypanel Fo	nt	? ×
	Download Information	I	Begin Download
	Type of Download:	Keypanel	Logingonious
	Selected Device(s):	2	
	File to download:	KP-Series.kpf	
	Download Status		
			<u>C</u> ancel

9. Click Begin Download.

The download begins. A progress bar appears to show the progress of the download.

Download Keypanel Font	? ×
Download Information	Begin Download
Type of Download: Keypanel	Degin Download
Selected Device(s): 2	
File to download: KP-Series.kpf	
Download Status Downloading image	
34%	Abort

Once the download is complete the Download Keypanel Font window closes.

10. Verify the Keypanel Version Information window is displaying the numbers of chunks (of data) transferred to the keypanel.

📃 AZedit - [ONLINE] - Keypanel Version Inform	ation	and then the
<u>File</u> O <u>n</u> line A <u>u</u> th	nentication <u>E</u> dit <u>V</u> iew <u>S</u>	ystem <u>A</u> lphas S <u>t</u> atus	<u>Options</u> Logging <u>H</u> elp
KPs PLs IFE	Ss IFB SLs SLs RY		Image: second
🖁 🛢 🗟 🚭	2 🜣 😊 🔒 💛 🗎	2 6 22	t; 🕒 📾 F+ F- 😘 🎌 🛛
🎦 🚈 РАТ	🗋 New 😂 Open 🗎 M	erge 📕 Save 🔛 Sav	e As 📕 Partial 🎒 Print 🗟 Prev
Port 🛆	Alpha	Version	
001	N001		
002	N001	n/a Download: Chu	nk 9 of 15 try 1, 63%
003	N003	n/a	
004	N004	n/a	
005	N005	n/a	
006	N006	n/a	
007	N007	n/a	
800	N008	n/a	
	N009		

11. Verify the keypanel displays the **FONT Downloading icon with progression bar**. *Once the download is complete, the keypanel has to process the downloaded file.*



12. Verify the Keypanel Version Information window displays **Processing download** on the keypanel port you chose.

1.	AZedit - [OI	NLINE] - Keypanel	el Version Information
E	le O <u>n</u> line	A <u>u</u> thentication	<u>E</u> dit <u>V</u> iew <u>System</u> <u>Alphas</u> Status <u>Options</u>
	D 🖻 🖬 I	🖬 😂 🖉 🖻) 🖉 🗷 🗶 🗠 🗠 🥒 🐇 🖻 💼 Q
	-		[
	Port 🛆	Alpha	Version
	118	N118	n/a
	119	N119	n/a
	120	N120	n/a
	121	N121	n/a
	122	N122	n/a
	123	N123	n/a
	124	N124	n/a
	125	N125	n/a
	126	N126	n/a
	127	N127	n/a
	128	N128	n/a
	129	N129	n/a
	130	N130	n/a
	131	N131	Processing download
	132	N132	n/a
	133	N133	n/a
	124	N134	n/a

13. Verify the keypanel displays the **Processing Download icon with progression bar**.



Once the keypanel is finished processing the download, the keypanel begins to reprogram. The keypanel flashes a Reprogramming: Do Not Turn Off icon in the display panel. This can take several minutes.



Once the reprogramming is complete, the keypanel reboots.

Download an Icon File

IMPORTANT: The following instructions can be used for either panel icons or tally (key overlay) icons.

To download an icon file, do the following:

- 1. Open AZedit.
- 2. From the Status menu, select **Software Versions**|**Keypanels**. *The Keypanel Version Information window appears*.
- Find and select the Port (keypanel) to be updated.
 You may select more than one (1) at a time by holding the CRTL key down while you select.
- **4.** Right-click the **highlighted selection**. *A popup menu appears*.

	AZedit - [ONLINE] - Keypanel Version Information			
Fil	e Online	Authentication	Edit View System Alphas Status Options Logging Help	
[🗅 🚔 🖻	🔒 🎒 🖉 🦷	🖥 🐼 🥕 🔟 🗠 🖉 🐰 🖻 💼 🔍 🎽 🖬 🕂 🖛 🗰 🔍	
			4	
	Port	Alpha	Version 🛆	
	001	N0C ⁻¹	Info 5022 Marrian 1 3, Sep 4 2015, CRC=1a35	
	003	NOC		
	002	NOC	Download firmware	
	004	NOC	Download font	
	005	5	Download splash screen Download icons	
	006	6	n/a	
	007	7	n/a	
	800	8	n/a	
	009	9	n/a	

- 5. Select **Download icons...**. *The Icon Download window appears.*
- 6. Navigate to the icon file (.bmp or .jpg) you want to use.

7. Click Open.

The Download Icon File window appears.

Download Icons File	? ×
Download Information	Begin <u>D</u> ownload
Type of Download: Keypanel	
Selected Device(s): 1	
File to download: key_icons.bmp	
Download Status	C Panel Tally
	Cancel

8. Verify the correct Icon Type radio button is selected – Key Overlay or Panel Tally radio button.

9. Click Begin Download.

The download begins. A progress appears to show the progress of the download. Once the download is complete the Download Keypanel Font window closes.

10. Verify the Keypanel Version Information window displays the numbers of chunks (of data) transferred to the keypanel.

📴 AZedit - [ONLINE] - Keypanel Version Information										
File Online Authentication Edit View System Alphas Status Options Logging Help										
🗅 🖆 🖶 🎒 🖉 🖻 🖉 🥒 🗶 🗠 🗠 🏈 🗼 🛍 💼 🍳 🍑 🕶 🖡 🔶 🐇										
	Port	Alpha	Version 🛆							
ſ	001	N001	Download: Chunk 6 of 9, try 1, 41%							
	003	N003	Unknown							
	002	N002	n/a							
	004	N004	n/a							
	005	5	n/a							

11. Verify the keypanel displays the ICON Downloading icon with progression bar.



Once the keypanel is finished, it begins to reprogram. The keypanel flashes a Reprogramming: Do Not Turn Off icon in the display panel. This can take several minutes.



Once the reprogramming is complete, the keypanel reboots.

Download User Chimes (Control Package Only)

- 1. Open AZedit.
- 2. From the Status menu, select **Software Versions**|**Keypanels**. *The Keypanel Version Information window appears*.
- 3. Find the **port number** where the DKP-4016/4016W is assigned.
- **4.** Highlight the **Port** (keypanel) to be updated. *You may select more than one (1) at a time by holding CTRL key down while you select.*
- 5. Right-click the **highlighted selections**. *A popup menu appears*.
- 6. Select **Download Chime...**. *The Font Download window appears*.
- 7. Navigate to the chime file (.wav or .mp3) you want to use.
- 8. Click Open.

The Download chime window appears.

Download Chime File		? <mark>×</mark>		
Download Information Type of Download: Selected Device(s): File to download:	Keypanel 68 doothell, chime way	Begin Download Cancel		
Download Status	doorbell_chime.wav	Chime Slot: Slot 1		

9. Choose a User Slot.

10. Click Begin Download.

The download begins. A progress bar appears to show the progress of the download.

Download Chime File	? 💌		
Download Information Type of Download: Keypanel Selected Device(s): 68	Begin Download Abort		
File to download: doorbell_chime.wav Download Status Downloading image 65%	Chime Slot: Slot 1		

Once the download is complete the Download Keypanel Font window closes.

11. Verify the Keypanel Version Information window is displaying the numbers of chunks (of data) transferred to the keypanel.

E File			l Version Information Edit View System Alphas Status Options Logging Help
			East view system Alphas status Options Logging Help
	1 🖛 48		
	Port 🛆	Alpha	Version
Γ	014	14	n/a
	015	15	n/a
	016	16	n/a
L	017	17	n/a
L	018	18	n/a
L	019	19	n/a
L	020	20	n/a
L	021	21	n/a
L	022	22	n/a
L	023	23	n/a
	024	24	n/a
L	025	25	n/a
L	026	26	n/a
L	027	27	n/a
L	028	28	n/a
	029	29	n/a
	030	30	n/a
	031	31	n/a
	032	32	Download: Chunk 2 of 18, try 1, 34%
	033	33	n/a

12. Verify the keypanel displays the **Chime Download icon with progression bar**. *Once the download is complete, the keypanel has to process the downloaded file.*



Once the keypanel has finished the download, the keypanel begins to reprogram. The keypanel flashes a Reprogramming: Do Not Turn Off icon in the display panel. This can take several minutes.



Once the reprogramming is complete, the keypanel reboots.

Download Screen Savers (Control Package Only)

IMPORTANT:Recommended screen saver bitmap file size:
DKP-4016 - min 16x16, max 192x130 (WxH)

To download a screen saver image, do the following:

- 1. Open AZedit.
- 2. From the Status menu, select **Software Versions**|**Keypanels**. *The Keypanel Version Information window appears*.
- **3.** Find the **port number** where the DKP-4016/4016W is assigned.
- **4.** Highlight the **Port** (keypanel) to be updated. *You may select more than one (1) at a time by holding CTRL key down while you select.*

- 5. Right-click the highlighted selections. *A popup menu appears.*
- 6. Select **Download Screen Saver...** *The Font Download window appears.*
- 7. Navigate to the screen saver file (.jpg, .bmp, .gif, .tif, .png) you want to use.

8. Click Open.

The Download chime window appears.

Download Screen Saver File	? 💌
Download Information	Begin Download
Type of Download: Keypanel	
Selected Device(s): 68	Cancel
File to download: basketball_ss_2RU.jpg	
Download Status	Panel Size
ldle	C 1RU
	- © 2RU

9. From the Panel Size Group Box, select the 2 RU radio button.

IMPORTANT: If the image is too large for a 1 RU keypanel, AZedit auto-selects 2 RU.

10. Click Begin Download.

The download begins. A progress bar appears to show the progress of the download.

Download Screen Saver File	? <mark>- × -</mark>
- Download Information	Begin Download
Type of Download: Keypanel	
Selected Device(s): 68	Cancel
File to download: basketball_ss_2RU.jpg	
Download Status	Panel Size
Downloading image	C 1RU
65%	2RU

Once the download is complete the Download Keypanel Font window closes.

11. Verify the Keypanel Version Information window is displaying the numbers of chunks (of data) transferred to the keypanel.

	AZedit - [0	NLINE] - Keypane	Version	Info	rmation						
Fil		Authentication				Alphas	Status	Options	Logging	Help	
	D 🖻 🖶	🖬 🎒 🖉 🖷	2 🗷	×	00	. / 3		Q ;	🎉 🗸 🗜 -	• •	•
1		1	[
	Port △	Alpha	Vers	ior	1						
	014	14	n/a								
	015	15	n/a								
	016	16	n/a								
	017	17	n/a								
	018	18	n/a								
	019	19	n/a								
	020	20	n/a								
	021	21	n/a								
	022	22	n/a								
	023	23	n/a								
	024	24	n/a								
	025	25	n/a								
	026	26	n/a								
	027	27	n/a								
	028	28	n/a								
	029	29	n/a								
	030	30	n/a								
	031	31	n/a								
	032	32	Dow	nlo	oad: C	hunk	1, try 1	1, 25%	,		
	033	33	n/a								

12. Verify the keypanel displays the Scrn Saver Download icon with progression bar.



Once the keypanel is finished downloading, the keypanel begins to reprogram. The keypanel flashes a Reprogramming: Do Not Turn Off icon in the display panel. This can take several minutes, Once the reprogramming is complete, the keypanel reboots.



chapter 5 DKP-4016 Menu System

NOTE: A menu system quick reference chart is located at "Keypanel Menu Quick Reference" on page 251.

Main Menu Access

IMPORTANT: For more detailed information on Basic Key operation, see "Menu Navigation and Shaft Encoder Knobs" on page 40.

The Main Menu is the top-most level of the menu structure.

Available selections for this menu are:

Audio Options Display Key Assign Key Options OMNEO Offers Save Config Service To access the main menu structure, do the following:

 On the keypanel keypad, press the MENU button. The Information menu structure displays across the middle of the panel display.



- 2. Using the arrow buttons on the keypad, navigate through the menu options.
- **3.** Press the **SEL button**. *The submenu for the selection appears.*

Menu System, Audio Options

Available options for this menu are:

Advanced Chime Dim Ganged Vols Headset Mic Headset Spkr Inputs Key Volumes Matrix Out Max Volume Mic Gain Mic Mute Min Volume Output Lev Panel Mic Preamp Out Sidetone Speaker Tone Gen VM Options

Audio Options Menu, Advanced

- AEC
- AGC
- Compression
- Filters
- Gating
- Metering
- Mixing
- Mix Mode

AEC

AEC (Acoustic Echo Cancellation) is used to prevent feedback from occurring between the microphone and the speaker. AEC is only available on one (1) microphone; by default, it is enabled on the front panel mic. When the front panel mic is disabled, AEC operates on the rear microphone.

NOTE: AEC is not available for Headset Mics.

Mic Priority

The Mic Priority menu is used to select the microphone to enable AEC on when both the front and rear mics are active.

To configure mic priority on a microphone, do the following:

- 1. Starting at the Audio Options|Advanced|AEC menu, select Mic Priority.
- 2. Press the SEL button. Front Mic and Rear Mic appear in the panel display.
- 3. Using the left and right arrow buttons, select Front Mic or Rear Mic.
- **4.** Press the **SEL button**. *An arrow appears next to the selected option.*

AGC

The AGC (Automatic Gain Control) menu is used to set the speed at which a microphone becomes active and the speed at which a sustainable level is achieved through the use of the Attack menu and the Decay menu. You can set these levels for the front, rear, and headset microphones used with the keypanel.

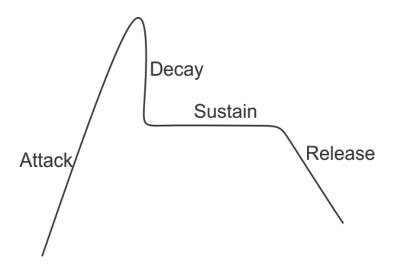


FIGURE 84. Automatic Gain Control Example

The **Attack** menu item is used to set the speed at which the microphone gets to the activation threshold, the point where the circuit determines if the noise is a voice. The smaller the attack time, the faster the mic turns on.

Available options for this menu are: 0.5ms

1ms (d)

2ms

Decay

The Decay menu item is used to set the speed at which the gain transitions to silence during release.

Available options for this menu are: 500ms 750ms (default)

1000ms

To configure the attack speed for a microphone source, do the following:

- 1. Starting at the Audio Options|Advanced|AGC menu, select Attack.
- 2. Press the SEL button. Front Mic, Left Hdst, Rear Mic, and Right Hdst appears in the panel display.
- 3. Using the arrow buttons, select Front Mic, Left Hdst, Rear Mic, and Right Hdst.
- Press the SEL button. The Fast Attack Speed scroll box appears in the panel display.
- 5. Using the arrow buttons, select the Attack speed you desire.

To configure the decay speed for a microphone source, do the following:

- 1. Starting at the Audio Options|Advanced|AGC menu, select **Decay**.
- 2. Press the SEL button. Front Mic, Left Hdst, Rear Mic, and Right Hdst appears in the panel display.
- 3. Using the arrow buttons, select Front Mic, Left Hdst, Rear Mic, and Right Hdst.
- **4.** Press the **SEL button**. *The Decay scroll box appears in the panel display.*
- 5. Using the up and down arrow buttons, select the **Decay speed** you desire.

Compression

The **Compression** menu item is used change the audio's gain, meaning audio above the noise gate threshold is changed according to the compression ratio selected. The compression is used to change the dynamic range of the mic input. This means loud sounds are softened; while soft sounds are amplified.

Compression can be applied to the following:

- Front Mic
- Left Headset
- Rear Mic
- Right Hdst

Available options are:

1:1 2:1 3:1(default)

Additional options with purchase of Audio Package:

4:1 5:1

6:1

To configure compression on a microphone, do the following:

- 1. Starting at the Audio Options|Advance menu, select Compression.
- 2. Press the SEL button. Front Mic, Left Hdst, Rear Mic, and Right Hdst appear in the panel display.
- **3.** Using the arrow buttons, select the **microphone source**.
- **4.** Press the **SEL button**. *The Compression Ratio scroll box appears in the panel display.*
- 5. Using the up and down arrow buttons, select the **compression ratio** you want to apply to the microphone source.

Filters

Filters allow you to add a bandpass filter, a preset frequency response (equalization) filter or a notch filter to one (1) or more audio sources.

Bandpass

The **Bandpass** menu is used to enable using bandpass filters as well as set a low and high frequency range where frequencies within the two (2) frequency points are passed and anything outside of the range is rejected.

To configure a bandpass range for Inputs, do the following:

- 1. Starting at the Audio Options Advanced Filters menu, select Bandpass.
- Press the SEL button. Inputs and Outputs appears in the panel display.
- 3. Using the arrow buttons, select **Input**.
- 4. Press the SEL button. Aux 1, OMNEO 1, and OMNEO 2 appear in the panel display. Or if the AUDIO package has been purchased, OMNEO 1-8 displays
- 5. Using the arrow buttons, select either Aux 1, OMNEO 1 or OMNEO 2 (or OMNEO 1-8, if the audio package is purchased).

6. Press the SEL button. Frequencies and Mode appear in the panel display.

- Using the arrow buttons, select Mode. Disabled and Enabled appear in the panel display.
- 8. Using the arrow buttons, select **Enabled**.
- Press the SEL button. An arrow appears next to the selected option.
- Press the CLR button.*Frequencies and Mode appear in the panel display.*
- **11.** Using the arrow buttons, select **Frequencies**.
- **12.** Press the **SEL button**. *The Low Freq scroll box and the High Freq scroll box appear in the panel display.*
- 13. Using the up and down arrow buttons, select the low frequency you desire.
- 14. Using the left and right arrow buttons, select the high frequency scroll box.
- 15. Using the up and down arrow buttons, select the high frequency you desire.

To configure a bandpass range for Outputs, do the following:

- 1. Starting at the Audio Options|Advanced|Filters menu, select **Bandpass**. *Inputs and Outputs appears in the panel display.*
- 2. Using the arrow buttons, select **Output**.
- 3. Press the SEL button. Left Hdst, Matrix Out, OMNEO 1, OMNEO 2, Preamp Out, and Right Hdst appear in the panel display. Or if the AUDIO package has been purchased, OMNEO 1-8 displays
- 4. Using the arrow buttons, select the **output** you desire to modify.

If Left Hdst or Right Hdst is chosen:

- a. Press the SEL button. Both, Left Chan, and Right Chan appear in the panel display.
- b. Using the left and right arrow buttons, select either Both, Left Chan, or Right Chan.

5. Press the SEL button.

Frequencies and Mode appear in the panel display.

- 6. Using the arrow buttons, select **Mode**. *Disabled and Enabled appear in the panel display*.
- 7. Using the arrow buttons, select **Enabled**.
- Press the SEL button. An arrow appears next to the selected option.

9. Press the CLR button.

Frequencies and Mode appear in the panel display.

10. Using the left and right arrow buttons, select Frequencies.

11. Press the **SEL button**.

The Low Freq scroll box and the High Freq scroll box appear in the panel display.

- 12. Using the up and down arrow buttons, select the low frequency you desire.
- 13. Using the left and right arrow buttons, select the high frequency scroll box.
- 14. Using the up and down arrow buttons, select the high frequency you desire.

Equalization

Equalization allows the user to select predefined settings that modify the frequency envelope of an audio channel. This is a 5-band equalizer. Each preset provides a different EQ to be applied to the audio. To view all of the bands, see "Adjustable 5-Band Equalization – Audio Package Only" on page 179.

Available selections for this menu are:

*Default*0 dB (15Hz–20kHz)

Hiss Reduction0 dB (15Hz–2kHz) -6 dB (2kHz–12.6kHz)

Rumble Reduction0 dB (50Hz-20kHz)

Noise Reduction0 dB (50Hz-2kHz)

-6 dB (2kHz–8kHz) -80dB (8kHz–12.6kHz)

To configure a preset frequency response for an input, do the following:

- 1. Starting at the Audio Options|Advanced|Filters menu, select **Equalization**. *Inputs and Outputs appears in the panel display.*
- 2. Using the arrow buttons, select either Input.
- **3.** Press the **SEL button**.

Front Mic, Left Hdst, Matrix In, Rear Mic, and Right Hdst appear in the panel display.

- 4. Using the arrow buttons, select either Front Mic, Left Hdst, Matrix In, Rear Mic, and Right Hdst.
- Press the SEL button. Mode and Presets appear in the panel display.
- 6. Using the arrow buttons, select **Mode**. *Disabled and Enabled appear in the panel display.*
- 7. Using the arrow buttons, select **Enabled**.
- Press the SEL button. An arrow appears next to the selected option.
- Press the CLR button. Mode and Presets appear in the panel display.
- **10**. Using the arrow buttons, select **Presets**.
- Press the SEL button. Default, Hiss Reduction, and Rumble Reduction appear in the panel display.
- 12. Using the arrow buttons, select **Default**, **Hiss Reduction**, or **Rumble Reduction**.
- **13.** Press the **SEL button**. *An arrow appears next to preset selected.*

To configure a preset frequency response for an output, do the following:

- Starting at the Audio Options|Advanced|Filters menu, select Equalization. Inputs and Outputs appears in the panel display.
- 2. Using the arrow buttons, select either **Output**.
- Press the SEL button. Left Spkr and Right Spkr appear in the panel display.

- 4. Using the arrow buttons, select either Front Spkr or Right Spkr.
- Press the SEL button. Mode and Presets appear in the panel display.
- 6. Using the arrow buttons, select Mode. Disabled and Enabled appear in the panel display.
- 7. Using the arrow buttons, select **Enabled**.
- Press the SEL button. An arrow appears next to the selected option.
- Press the CLR button. Mode and Presets appear in the panel display.
- **10.** Using the arrow buttons, select **Presets**.
- **11.** Press the **SEL button**. Default, Hiss Reduction, and Rumble Reduction appear in the panel display.

12. Using the arrow buttons, select **Default**, **Hiss Reduction**, or **Rumble Reduction**.

13. Press the **SEL button**.

An arrow appears next to preset selected.

Adjustable 5-Band Equalization – Audio Package Only

Included in the purchased audio package, is an adjustable 5-band equalizer giving you the ability to adjust the low and high frequency cutoff filters and the gain for each band. This feature is in addition to the preset equalization settings that comes standard on the keypanel.

1		2		3		4		5	
low	high	low high		low	high	low	high	low	high
15.6Hz	125Hz	125Hz 500Hz		500Hz 2000Hz		2000Hz	8000Hz	8000Hz	12.6kHz
31.3Hz									15.8kHz
50.0Hz									20.0kHz

- Band 1 has three options for low cut-off frequency
- Bands 2, 3, and 4 have fixed frequencies
- Band 5 has three options for high cut-off frequency independent of the low frequency setting

To adjust the low and high frequency cutoff filters for Inputs, do the following:

- 1. Starting at the Audio Options Advanced Filters menu, select Equalizer.
- 2. Press the SEL button. Inputs and Outputs appears in the panel display.
- 3. Using the arrow buttons, select Input.
- 4. Press the SEL button. Front Mic, Left Hdst, Matrix In, Rear Mic and Right Hdst appear in the panel display.
- 5. Using the arrow buttons, select the **input** you want to adjust.
- 6. Press the SEL button. Frequencies, Gains, Mode and Presets appear in the panel display.
- 7. Using the arrow buttons, select **Frequencies**.
- Press the SEL button.
 The Low Freq scroll box and the High Freq scroll box appear in the panel display.
- 9. Using the up and down arrow buttons, select the low frequency you desire.
- 10. Using the left and right arrow buttons, select the high frequency scroll box.
- 11. Using the up and down arrow buttons, select the high frequency you desire.
- 12. Repeat steps 4 through 11 for each input.

To adjust the low and high frequency cutoff filters for Outputs, do the following:

- 1. Starting at the Audio Options|Advanced|Filters menu, select Equalizer.
- Press the SEL button. Inputs and Outputs appears in the panel display.

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- 3. Using the arrow buttons, select **Output**.
- **4.** Press the **SEL button**. *Front Spkr and Rear Spkr appear in the panel display.*
- 5. Using the arrow buttons, select either Front Spkr or Rear Spkr.
- 6. Press the SEL button. Frequencies, Gains, Mode and Presets appear in the panel display.
- 7. Using the arrow buttons, select **Frequencies**.
- 8. Press the SEL button. *The Low Freq scroll box and the High Freq scroll box appear in the panel display.*
- 9. Using the up and down arrow buttons, select the low frequency you desire.
- 10. Using the left and right arrow buttons, select the high frequency scroll box.
- 11. Using the up and down arrow buttons, select the high frequency you desire.
- 12. Repeat steps 4 through 11 for each output.

To configure the 5-band gain for inputs, do the following:

- 1. Starting at the Audio Options|Advanced|Filters menu, select Equalization.
- 2. Press the SEL button. Inputs and Outputs appears in the panel display.
- 3. Using the arrow buttons, select Input
- 4. Press the SEL button. Front Mic, Left Mic, Matrix In, Rear Mic, and Right Hdst appear in the panel display.
- 5. Using the left and right arrow buttons, select the **input** desired.
- 6. Press the SEL button. Frequencies, Gains, Mode, and Presets appear in the panel display
- 7. Using the left or right arrow buttons, select Gains.
- 8. Press the SEL button. *The 1: through 5: band scroll boxes appear in the panel display.*
- 9. Using the up and down arrow buttons, select the gain level you desire for Band 1.
- **10.** Using the left and right arrow buttons, select the **Band 2 scroll box**.
- 11. Using the up and down arrow buttons, select the gain level you desire Band 2.
- 12. Repeat setting the gain levels on the remaining bands.
- 13. Repeat steps 4 through 11 for each input, desired.

To configure the 5-band gain for outputs, do the following:

- 1. Starting at the Audio Options Advanced Filters menu, select Equalization.
- 2. Press the SEL button. Inputs and Outputs appears in the panel display.
- 3. Using the arrow buttons, select **Output**
- 4. Press the SEL button. Front Spkr and Rear Spkr appear in the panel display.
- 5. Using the left and right arrow buttons, select either Front Spkr or Rear Spkr.-
- 6. Press the SEL button. Frequencies, Gains, Mode, and Presets appear in the panel display
- 7. Using the left or right arrow buttons, select Gains.
- 8. Press the SEL button. *The 1: through 5: band scroll boxes appear in the panel display.*
- 9. Using the up and down arrow buttons, select the **gain level** you desire for Band 1.
- 10. Using the left and right arrow buttons, select the **Band 2 scroll box**.
- 11. Using the up and down arrow buttons, select the gain level you desire Band 2.
- 12. Repeat setting the gain levels on the remaining bands.
- 13. Repeat steps 4 through 11 for each input, desired.

Notch

The **Notch** menu allows you to add a notch filter to the Matrix In source - either AIO or OMNEO channel 1. This can be useful when the keypanel data port signal is being heard in the audio line due to cable routing problems.

By default, the notch filter is set to *Disabled*.

Available options for this menu are:

Disabled

Narrow9500hz-9700Hz (200Hz band)

Default9450hz-9750Hz (300Hz band)

Wide9400hz-9800Hz (400Hz band)

Gating

Gating (also called VOX) allows you to minimize or eliminate background noise problems by shutting off an audio source when the audio level drops below a certain threshold.

Gating can be applied to the following:

Aux 1 Front Mic Left Hdst Matrix In OMNEO 1 OMNEO 2 (OMNEO 1-8 appear if Audio Package is installed) Rear Mic Right Hdst

The range for the gating threshold is -17dB to +18dB, and *Disabled*. By default, the gating threshold is set to *Disabled*.

Nominal inputs are as follows:

AUX 18dBu

Headset Mics-50dBu

Matrix In8dBu

Panel Mics-42.5dBu

OMNEO 1-2¹8dBu

To configure gating on the keypanel, do the following:

- 1. Starting at the Audio Options|Advanced menu, select Gating.
- Press the SEL button. Aux 1, Front Mic, Left Hdst, Matrix In, OMNEO 1, OMNEO 2, Rear Mic, and Right Hdst appear in the panel display. (OMNEO 1-8 appears if Audio Package is installed)
- 3. Using the left or right arrow buttons, select Aux 1, Front Mic, Left Hdst, Matrix In, OMNEO 1, OMNEO 2, Rear Mic, or Right Hdst. (OMNEO 1-8 appears Audio Package is installed)

^{1.} OMNEO 1-8 appears if Audio Package is installed.

- 4. Press the SEL button. The Threshold scroll menu appears.
- 5. Using the up and down arrow buttons, select the **threshold** you desire.
- Press BACK to go to the previous menu item OR
 Press and hold CLR to exit the menu structure.

Metering

Metering allows you to monitor an audio source connected to the keypanel. The energy of the incoming audio is split into five (5) bands and displayed on the left side of the keypanel when enabled.

The decibels display range is from 28dB below nominal to 8dB above nominal The bands are defined as:

Band 1100 Hz to 400 Hz Band 2400 Hz to 800 Hz Band 3800 Hz to 1.6 kHz Band 41.6 kHz to 3.2 kHz Band 53.2 kHz to 15 kHz

NOTE: Only one (1) channel can be metered at a time.

You can enable metering on:

Aux1
Front Mic
Left Hdst
Matrix In
None (default)
OMNEO 1 ¹
$OMNEO 2^{1}$
Panel Mic
Rear Mic
Right Hdst

To enable metering, do the following:

- 1. Starting at the Audio Options|Advanced menu, select Metering.
- 2. Press the SEL button.

Aux 1, Matrix In, None, Front Mic, Left Hdst, None, OMNEO 1, OMNEO 2, Rear Mic, and Right Hdst appear in the panel display. (OMNEO 1-8 appears if Audio Package is installed)

- 3. Using the arrow key, select Aux 1, Matrix In, None, Front Mic, Left Hdst, OMNEO 1, OMNEO 2, Rear Mic, or Right Hdst (OMNEO 1-8 appears if Audio Package is installed).
- **4.** Press the **SEL button**. *An arrow appears next to the selected option.*

^{1.} OMNEO 1-8 appears if Audio Package is installed

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Mixing

Mixing allows you to route selected audio signals to the following destinations:

- To Matrix
- Left Headphone
- Front Right Headphone
- Front Speaker
- Mic Preamp Out
- OMNEO 1
- OMNEO 2

(OMNEO 1-8 appears if the Audio Package is purchased)

IMPORTANT: If OMNEO is enabled, OMNEO 1 is not available because it is acting as the Matrix. On the other hand, if AIO is enabled, OMNEO 1 and OMNEO 2 are both available as auxiliary channels.

By default, the microphone signals are routed to the matrix. The matrix signal is routed to the front speaker and to the left and right channels of both headphones. These defaults can be changed via the Audio Options sub-menus for Panel Mic, Headset Mic, Speaker, and Headset Speaker.

Available options for this menu are:

Left Hdst

Front Spkr

OMNEO 1

OMNEO 2

Preamp out

Right Hdst

Rear Spkr

To Matrix

- Rear Speaker Rear Left Headphone
- Right Headphone

NOTE: OMNEO 1-8 appears only if the Audio Package is installed.

TABLE 9. Resources Table

Destination	Source	Front Panel Mic	Matrix Audio In	Left Headset Mic	Right Headset Mic	Rear Panel Mic	Aux 1	OMNEO 1	OMNEO 2
Matrix OUT		а	Х	а	а	а	Х	Х	Х
Front Speaker		Х	b	Х	Х	Х	Х	Х	Х
Left Headset Left		Х	b	Х	Х	Х	Х	Х	Х
Left Headset Right		Х	b	Х	Х	Х	Х	Х	Х
Right Headset Left		Х	b	Х	Х	Х	Х	Х	Х
Right Headset Right		Х	b	Х	Х	Х	Х	Х	Х
Rear Speaker		Х	b	Х	Х	Х	Х	Х	Х
Mic OUT		а	Х	а	а	а	Х	Х	Х
OMNEO ^c Ch 1		Х	Х	Х	Х	Х	Х	Х	Х
OMNEO Ch 2		Х	Х	Х	Х	Х	Х	Х	Х

a. Mic inputs cannot be mixed to the Matrix or preamp outputs using this menu. To mix mic inputs to the matrix output or preamp output, use the Panel Mic and Headset Mic menus.

b. The Matrix input cannot be mixed to speaker or headset outputs using this menu. To mix Matrix In to speakers or headsets, use the Speaker and Headset Spkr menus.

c. OMNEO 1-8 appears only if the Audio Package is installed.

To configure mixing, do the following:

- 1. Starting at the Audio Options Advanced menu, select Mixing.
- 2. Press the **SEL button**.

Front Left Hdst, Front Spkr, OMNEO 1, OMNEO 2, Preamp Out, Right Hdst, Rear Spkr, and To Matrix appear in the panel display.

3. Using the left or right arrow buttons, select a the destination to mix to (or the destination to which the sources will be mixed).

NOTE: If Left Hdst or Right Hdst is chosen, an additional step of choosing Both, Left Chan, or Right Chan is required.

4. Press the SEL button.

If Front Spkr, Rear Spkr, Left Hdst or Right Hdst is selected Aux 1, Left Hdst, Front Mic, OMNEO 1, OMNEO 2, Rear Mic, and Right Hdst appears in the panel display.

OR

If OMNEO 1 or OMNEO 2 is selected Aux 1, Left Hdst, Front Mic, Matrix In, OMNEO 1, OMNEO 2, Rear Mic, and Right Hdst appears in the panel display.

- 5. Using the left or right arrow buttons, select the **input** to mix to the selected output.
- 6. Press the SEL button.

An arrow appears next to the selection.

NOTE: Repeat steps 5 and 6 to select additional inputs to mix to the selected output.

Mix Mode

The Mix Mode menu is used to control whether mixes made to the speakers and headsets are muted when they are not active.

Available options for this menu are:

Aux Mixes Switched (default)Aux inputs mixed to matrix out, preamp out, speakers or headsets are only heard when the panel is in the appropriate headset or speaker mode.

Mixes always activeAux inputs mixed to speakers or headset are always heard, regardless of whether the panel is in headset or speaker mode.

To configure Mix Mode, do the following:

- 1. Starting at the Audio Options|Advanced menu, select Mix Mode.
- 2. Press the SEL button. Aux Mixes Switched and Mixes Always Active appear in the panel display.
- 3. Using the left or right arrow buttons, select the **mix mode** you desire.
- **4.** Press the **SEL button**. *An arrow appears next to the selection.*

Noise Gate

The **Noise Gate** menu is used to enable or disable the audio level at which the mic turns on. When noise gate is enabled, microphone noise gate is set to -72dBu; when the noise gate is disabled, the microphone is always on.

To enable/disable noise gate, do the following:

- 1. Stating at the Audio Options Advanced menu, select Noise Gate.
- 2. Using the left or right arrow keys, move to the Mic scroll box.
- 3. Using the up or down arrow keys, select the Front Mic, Left Mic, Rear Mic, or Right Mic.
- 4. Using the left or right arrow keys, move to the **State scroll box**.
- 5. Using the up or down arrow keys, select **Disable** or **Enable**.

Noise Gate – Audio Package Only

If you have purchased the Audio Package for the DKP-4016, you have the ability to adjust the noise gate, giving you more flexibility configuring the input gate levels for each device.

Available options are: Disabled, -87 dBu, -84 dBu, -81 dBu, -78 dBu, -75 dBu, -72 dBu, -69 dBu, -66 dBu, -63 dBu, -60 dBu, -57 dBu, -54 dBu, -51 dBu, -48 dBu, or -42 dBu.

To adjust the noise gate, do the following:

- 1. Stating at the Audio Options Advanced menu, select Noise Gate.
- 2. Press the SEL button. Front Mic, Left Hdst, Rear Mic, and Right Hdst appear in the panel display.
- 3. Using the left or right arrow keys, select the **input** you want to apply the noise gate.
- **4.** Press the **SEL button**. *The Noise Gate scroll list appears in the panel display.*
- 5. Using the up and down arrow keys, select the gate level you desire.

Audio Options Menu, Chime

The **Chime** menu is used to set the volume for each of the built-in chimes, as well as to enable or disable preview of chimes during chime selection in this menu and others that reference chimes.

Available configurable options for this menu are:

*Preview*When enabled, a preview of the chime is played each time a new chime is selected or while the volume is being adjusted, so you can listen to what it sounds like.

*Chime*Allows the user to select between 12 system chimes. An additional four User chimes are added when the Audio package is installed.

*Volume*Controls the volume of the chime. This field ranges from -60dB to 10dB. The default for this field is -20dB.

To configure Chime on the keypanel, do the following:

- 1. Starting at the Audio Options menu, select Chime.
- Press the SEL button. The Preview, Chime, and Volume scroll boxes appear in the panel display.
- 3. Using the up or down arrow buttons, select Yes or No for Preview.
- 4. Using the left or right arrow buttons, select Chime.
- 5. Using the up or down arrow buttons, select the **system chime desired**.
- 6. Using the left or right arrow buttons, select Volume.
- 7. Using the up or down arrow buttons, select the volume you want the chime to sound.

Audio Options Menu, Dim

To configure Dim on the keypanel, do the following:

- 1. Starting at Audio Options, select **Dim**.
- Press the SEL button. Headset and Speaker appear in the panel display.
- 3. Using the left or right arrow buttons, select Headset or Speaker.
- **4.** Press the **SEL button**. *Front and Rear (or left and right if Hdst was chosen) appear in the panel display.*
- 5. Using the left or right arrow buttons, select Front or Rear (if Hdst was chosen, Left or Right).
- 6. Press the SEL button. *The Dim Amount scroll box appears.*
- 7. Using the up or down arrow buttons, select the **Dim Amount** you desire.

Audio Options Menu, Ganged Vols

Ganged Vols is used to set what happens when adjusting the volume for a ganged channel pair when the volumes are not identical and one (1) of the volumes reaches the minimum or maximum level.

Available options:

Disappearing Mode Allows adjustments to continue when one of the volumes of the ganged pair hits a limit. This setting adjusts the volume difference until the difference or offset between the volumes disappears.

Fixed Offset Mode Prevents adjustments to continue when one of the volumes of the ganged pair hits a limit. This setting maintains the difference between the two volumes.

To configure ganged volume, do the following:

- 1. Starting at Audio Options, select Ganged Vols.
- 2. Press the SEL button. Disappearing and Fixed Offset appear in the panel display.
- 3. Using the left or right arrow buttons, select either Disappearing or Fixed Offset.
- **4.** Press the **SEL button**. *An arrow appears next to the selected option.*

Audio Options Menu, Headset Mic

The Headset Mic option allows the user to configure where audio is coming from and the type of microphone being used.

By default, if no headset is detected, the headset mic input is muted to avoid allowing noise to get to the system. This feature can be disabled.

Auto-Mute

The Auto-Mute option is used to automatically mute the Mic Input when a headset mic is not detected.

Available selections for the Auto-mute menu are:

Disabled

Enabled

Mode

Available selections for the Mode menu are:

Disabled

Enabled

Switched (d) When set to Switched, the state of the Headset Mic is controlled by the Mic Sel key.

Туре

Available selections for the Type menu are:

Auto-Detect (default) The keypanel automatically detects the type of microphone connected.

Dynamic

Electret

To configure the Headset Mic Auto-mute, do the following:

- 1. Starting at the Audio Options menu, select Headset Mic.
- 2. Press the SEL button. Front and Rear appear in the panel display.
- 3. Using the right or left arrow buttons, select Left or Right.
- **4.** Press the **SEL button**. *Auto-Mute, Mode and Type appear in the panel display.*
- 5. Using the right or left arrow buttons, select Auto-Mute.
- 6. Press the SEL button. Disabled and Enabled appear in the panel display.
- 7. Using the right or left arrow buttons, select **Disabled** or **Enabled**.
- Press the SEL button.
 An arrow appears next to the selected option.

To configure the Headset Mic Mode, do the following:

- 1. Starting at the Audio Options menu, select Headset Mic.
- 2. Press the SEL button. Front and Rear appear in the panel display.
- 3. Using the right and left arrow buttons, select Left or Right.
- **4.** Press the **SEL button**. *Auto-Mute, Mode and Type appear in the panel display.*
- 5. Using the right and left arrow buttons, select **Mode**.
- 6. Press the SEL button. Disabled, Enabled, and Switched appear in the panel display.
- 7. Using the right and left arrow buttons, select Disabled, Enabled, or Switched.
- 8. Press the SEL button. An arrow appears next to the selected option.

To configure the Headset Mic Type, do the following:

- 1. Starting at the Audio Options menu, select Headset Mic.
- 2. Press the SEL button. Front and Rear appear in the panel display.
- 3. Using the right and left arrow buttons, select Left or Right.
- **4.** Press the **SEL button**. *Auto-Mute, Mode and Type appear in the panel display.*
- 5. Using the right and left arrow buttons, select Type.
- 6. Press the SEL button. *Auto-Detect, Dynamic, and Electret appear in the panel display.*
- 7. Using the right and left arrow buttons, select Auto-Detect, Dynamic, or Electret.
- Press the SEL button.
 An arrow appears next to the selected option.

Audio Options Menu, Headset Speaker

The **Headset Spkr** menu option is used to control the headset detection functions: auto-transfer, which is used to detect if a headset is present and mode, which determines when and where audio is heard. Also from this menu, the Main shaft encoder is defined how to control the left and right speakers.

Volume Control

Available selections for the Volume Control menu are:

*Ganged*The volume controls are tied to each other, only one knob is turned to adjust volume levels. The volume of both left and right headset speakers are controlled together.

Individual The volume controls are separate to each other.

NOTE: If you gang speakers and/or headset volumes, you may see a split volume bar if the left and right have different volumes with ganging is enabled. The front speaker or left headset is the top portion of the bar, while the bottom portion of the bar is the rear speaker or right headset volume.

To define how the Main Volume shaft encoder controls the volume for the left and right headset speakers, do the following:

- 1. Starting at the Audio Options|Headset Spkr menu, select Volume Control.
- 2. Press the SEL button. Ganged and Individual appear in the panel display.
- 3. Using the left or right arrow buttons, select Ganged or Individual.
- **4.** Press the **SEL button**. *An arrow appears next to the selected option.*

Auto-Transfer

Available selections for the Auto-transfer menu are:

Disabled

EnabledWhen enabled, the keypanel automatically enters or leaves headset mode when a headset is plugged in or removed.

To configure the Headset Auto-Transfer function, do the following:

- 1. Starting at the Audio Options|Headset Spkr menu, select Left or Right.
- 2. Press the SEL button. *Auto-Transfer and Mode appear in the panel display.*
- 3. Using the left or right arrow buttons, select Auto-Transfer.
- **4.** Press the **SEL button**. *Disabled and Enabled appear in the panel display.*
- 5. Using the left or right arrow buttons, select **Disabled** or **Enabled**.
- 6. Press the SEL button. An arrow appears next to the selected option.

Mode

Available selections for the Mode menu are:

Always On

Disabled

SwitchedWhen set to Switched, the state of the Headset Spkr is controlled by the Mic Sel key.

NOTE: The default for the left and right headset is *Always On*.

To configure the Headset Spkr Mode, do the following:

- 1. Starting at the Audio Options|Headset Spkr menu, select Left or Right.
- 2. Press the SEL button. *Auto-Transfer and Mode appear in the panel display.*
- **3.** Using the left or right arrow buttons, select **Mode**.
- 4. Press the SEL button. Both, Left Chan, and Right Chan appear in the panel display.
- 5. Using the left or right arrow buttons, select the **mode** you want.
- 6. Press the SEL button. Always On, Disabled, and Switched appear in the panel display.
- 7. Using the left or right arrow buttons, select the **mode**.
- Press the SEL button. An arrow appears next to the selected option.

Audio Options Menu, Inputs

The **Inputs** menu is used to enable or disable volume control for audio inputs through the front panel encoder. The DKP-4016 has four (4) Input connectors on the back panel of the unit. By default, all inputs are enabled. This means the inputs are visible as inputs in the Mixing menu and (if mixed somewhere) can be selected for volume control.

If disabled, the inputs are not visible in the mixing menu and cannot be selected for volume control.

NOTE: Disabling an input does not undo any of the mixes you had previously established in the Mixing menu; however, it hides access to volume control of this input. This is useful if you want to set the matrix input volume, and then want to disable the volume control so users cannot adjust the Matrix volume.

To enable or disable an input, do the following:

- 1. Starting at the Audio Options|Inputs menu, select Aux 1, Matrix In, OMNEO1 or OMNEO2 (OMNEO 3-8 available, if licensed).
- 2. Press the SEL button. Disabled and Enabled appear in the panel display.
- Using the arrow buttons, Select Enabled to enable the selected Input. OR

Using the arrow buttons, Select Disabled to disable the selected Input

Audio Options Menu, Key Volumes

The **Key Volumes** menu is used to enable or disable the adjusting of crosspoint listen gains. If key volumes are enabled, the user can adjust the list gains for Matrix crosspoints from the keypanels. Alternatively, you can reset key gains back to their default settings.

Available options for this menu are: Adjust, Minimum, and Reset.

Minimum

The **Minimum** menu item is used to allow an administrator to set a minimum crosspoint volume for individual keys. This prevents users from lowering the crosspoint volume to an inaudible or muted level.

Available options for the minimum volume levels are: *Mute and -80dB to +6dB*.

NOTE: Key Volumes are either enabled for the entire keypanel or disabled for the entire keypanel. This setting cannot be set on a per key basis.

To enable key volumes, do the following:

- 1. Starting at the Audio Options Key Volumes menu, select Adjust.
- **2.** Press the **SEL button**. *Disabled and.Enabled appear in the panel display.*
- 3. Using the left or right arrow buttons, select **Enabled**.
- **4.** Press the **SEL button**. *Key volume adjustments are allowed by users.*

To set the minimum volume on every key, do the following:

- 1. Starting at the Audio Options Key Volumes menu, select Minimum.
- 2. Press the SEL button. Adjust Minimum Key Volumes appears in the panel display and the individual keys become active to change the minimum volume.
- 3. Using the lever associated with the keypanel key, press left to decrease or right to increase the volume.

To reset all key gains to their default value, do the following:

- 1. Starting at the Audio Options|Key Volumes menu, select Reset.
- 2. Press the SEL button. Cancel and Do Reset appear in the panel display.
- 3. Using the left or right arrow buttons, select **Do Reset**.
- **4.** Press the **SEL button**. *Volumes reset appears in the panel display.*

Audio Options Menu, Matrix Out

Matrix Out allows the user to select between Normal or Hot Mic. In Normal setting, audio from the selected active mic (based on the mic select feature, see "Audio Options Menu, Panel Mic" on page 195) goes out to the Matrix when any talk key is active. In the Hot Mic setting, audio from the mic goes out to the Matrix without regard to the talk key state.

By default, Matrix Out is set to Normal operation.

To configure Matrix Out, do the following:

- 1. Starting at the Audio Options| Matrix Out menu, select Hot Mic or Normal.
- 2. Press the SEL button.

An arrow appears next to the selected option.

NOTE: When Hot Mic is enabled, the Hot Mic icon appears in the panel display.

Audio Options Menu, Max Volume

The **Max Volume** menu is used to set the maximum level, in dB, of the volume the user can configure for a headset or a speaker. This feature prevents incoming audio from being too loud.

The range for this field is *Mute and -48dB* to *10dB*. The default setting is *10dB*.

To set the maximum volume for headsets or speakers, do the following:

- 1. Starting at the Audio Options Max Volume menu, select Headset or Speaker.
- 2. Press the SEL button.

If headset was selected, Left and Right appear in the panel display. If Speaker was selected, Front and Rear appear in the panel display.

- 3. Using the left or right arrow buttons, select Left or Right.
- Press the SEL button. *The Max Volume: scroll box appears in the panel display.*
- 5. Using the up and down arrow buttons, scroll to the maximum volume you desire.

Audio Options Menu, Mic Gain

Mic Gain allows the user to adjust the mic gain level, in dB, and enable or disable mic gain on the keypanel. For more information, see "Key Gain Adjustment" on page 43, "Key Gain Adjustment" on page 43, and "Aux Volume Adjustments" on page 47.

The range for this field is *-20dB* to *10dB*. By default, this field is set to *0dB*.

To set the Mic Gain level, do the following:

- 1. Starting at the Audio Options Mic Gain menu, select Level.
- 2. Press the SEL button. Front Mic, Left Hdst, Rear Mic, and Right Hdst appear in the panel display.
- 3. Using the left or right arrow buttons, select the source to configure mic gain.
- Press the SEL button. The Mic Gain scroll box appears in the panel display.
- 5. Using the up and down arrow buttons, scroll to the mic gain level you desire.

To enable/disable mic gain from the front panel of the keypanel, do the following:

- 1. Starting at the Audio Options|Mic Gain menu, select Adjust.
- 2. Press the SEL button. Disabled, Front Mic, Left Hdst, Rear Mic, and Right Hdst appear in the panel display.
- 3. Using the left or right arrow buttons, select the **resource** you want to configure.

Available options are:

Disabled By disabling the mic mute key, users are not able to mute the microphone from the front panel.

Momentary The mic is muted for only as long as the mic mute key is held on.

ToggleThe mic mute key is enabled. In this mode, pressing the mic mute key toggles the mic mute state on and off.

By default, the Mic Mute menu is set to *toggle*.

To **configure the Mic Mute**, do the following:

- 1. Starting at the Audio Options menu, select **Mic Mute**.
- 2. Press the SEL button. Disable, Momentary and Toggle appear in the panel display.
- 3. Using the left or right arrow buttons, select **Disabled**, **Momentary**, or **Toggle**.
- **4.** Press the **SEL button**. *An arrow appears next to the selected option.*

Audio Options Menu, Min Volume

The **Min Volume** menu item is used to set the minimum volume level, in dB, for different sources on the keypanel. This is the minimum volume level available when using the Main Volume and Aux Volume control knob, located on the front of the keypanel.

Available sources are: Aux 1, Headset, Speaker, Matrix In, OMNEO 1, and OMNEO 2 (OMNEO 3-8 available, if licensed).

The range for this field is -48dB to 10dB, and *Mute*. By default, this field is set to -6dB for Matrix In, all other options are set to *Mute*.

To set the min volume, do the following,

- 1. Starting at the Audio Options|Min Volume menu, select the source to set the minimum volume on.
- Press the SEL button. The Min Volume: scroll box appears in the panel display.

NOTE: When Headset or Speaker is selected, you must designate the left or right headset or speaker.

3. Using the up and down arrow buttons, scroll to the minimum volume you desire.

Audio Options Menu, Output Level

The **Output Level** menu is used to adjust the nominal audio output level to the matrix.

The range for this field is 0dB to 8dB. By default, the output level is set to 8dB.

To set the Output Level, do the following:

> Starting at the Audio Options|Output Level menu, adjust the **output level**.

Audio Options Menu, Panel Mic

The Panel Mic menu option is used to configure how the panel mic operates.

Available options for this field are:

Disabled

Enabled

Switched When enabled, the state of the Panel Mic is controlled by the Mic Sel key.

NOTE: The default for the Rear Panel Mic is *disabled*, while the default for the Front Panel Mic is *switched*.

To configure the panel mic, do the following:

- 1. Starting at the Audio Options Panel Mic menu, select Front or Rear.
- Press the SEL button. Disabled, Enabled, and Switched appear in the panel display.
- 3. Using the left or right arrow buttons, select the mode.
- **4.** Press the **SEL button**. *An arrow appears next to the selected option.*

Audio Options Menu, Preamp Out

The Preamp Out menu is used to choose how audio is routed to the Preamp Output connector.

The selections available are:

Disabled When Disabled is selected, keypanel audio is isolated from the preamp output connector.

Hot MicWhen Hot Mic is selected, audio is always available at the preamp output connector.

InvertWhen Inverted is selected, keypanel audio is routed to the preamp output connector when no talk key is active.

Switched (default)When Switched is selected, keypanel audio is routed to the preamp output connector when a talk key is active.

To configure the preamp output connector, do the following:

- 1. Starting at the Audio Options|Preamp Out menu, select the preamp out option you want.
- 2. Press the SEL button.

An arrow appears next to the selected option.

Audio Options Menu, Sidetone

The **Sidetone** menu is used to configure the level, in dB, at which the user hears their own voice. Most people prefer some amount of sidetone to overcome the muffled sensation when talking, especially when wearing a dual-sided headset.

The range for this field is -65dB to 0dB. By default, the sidetone level is set at -20dB.

The available options for the sidetone mode are:

Always On

Disabled

Switched (default) When set to Switched, the user's voice is heard only when a talk key is activated.

To set the sidetone level, do the following:

- 1. Starting at the Audio Options|Sidetone menu, select Level.
- Press the SEL button. The Sidetone Level scroll menu appears in the panel display. By default, sidetone is set to -20dB.
- 3. Using the up and down arrow buttons, adjust the sidetone level.

To set the sidetone mode, do the following:

- 1. Starting at the Audio Options|Sidetone menu, select Mode.
- 2. Press the SEL button. Always On, Disabled, and Switched appear in the panel display.
- 3. Using the left or right arrow buttons, select the **mode** to operate sidetone.
- 4. Press the SEL button.

Audio Options Menu, Speaker

The **Speaker** menu option is used to configure how the speaker operates. Also from this menu the Main Volume shaft encoder is defined how to control the front and rear speakers.

Available selections are:

Always On

Disabled

Switched When set to Switched, the state of the speaker is controlled by the Mic Sel key.

To configure the speaker, do the following:

- 1. Starting at the Audio Options|Speaker menu, select **Front** or **Rear**.
- 2. Press the SEL button. Always On, Disabled and Switched appear in the panel display.
- 3. Using the left or right arrow buttons, select the **option** you want configured.
- 4. Press the SEL button. An arrow appears next to the selected option.

Volume Control

Available selections for the Volume Control menu are:

NOTE: For more information on Ganged Volume configuration, see "Audio Options Menu, Ganged Vols" on page 188.

*Ganged*The volume controls are tied to each other, only one (1) knob is turned to adjust volume levels. The volume of both front and rear headset speakers are controlled together.

Individual The volume controls are independent of each other.

To define how the Main shaft encoder controls the volume for the front and rear channels, do the following:

- 1. Starting at the Audio Options|Speaker menu, select Volume Control.
- 2. Press the SEL button. Ganged and Individual appear in the panel display.
- 3. Using the left or right arrow buttons, select either Ganged or Individual.
- 4. Press the SEL button. An arrow appears next to the selected option.

Audio Options Menu, Tone Gen

Tone Gen (tone generation) allows the user to turn the tone generator on or off. The tone generator is used to check the audio path from the keypanel to the matrix.

Available selections for this menu are:

500Hz Tone (default)

1kHz Tone

To enable/disable the tone generator, do the following:

 Starting at the Audio Options|Tone Gen menu, select Tone Off to disable the tone generator. OR

Using the left or right arrow buttons, select **Tone On** to enable the tone generator. *An arrow appears next to the selected option.*

To set the frequency level for the tone, do the following:

- 1. Starting at the Audio Options|Tone Gen menu, select Frequency.
- 2. Press the SEL button. *1kHz Tone and 500Hz Tone appears in the panel display.*
- **3.** Using the left or right arrow buttons, select **1kHz Tone** or **500Hz Tone**. An arrow appears next to the selected option. If tone is enabled, an icon indicating 500Hz or 1kHz displays once the menu is exited.

Audio Options Menu, VM Options (Audio Package Only)

The VM Options menu is used to configure voice message playback options, voice message recording options, and mailbox full actions.

Playback Menu

The **Playback** menu is used to configure how incoming audio (matrix input, aux input, etc) is handled while the user is listening to a voice message.

Available selections for this menu are:

*Isolate*All other audio sources are removed from the speaker/headset when playing back a voice message. The user only hears the voice message playing, even if a call is coming in.

*Mix*The voice message is routed to the speaker/headset along with any other audio sources (matrix input, aux inputs, etc.) The user hears all audio: voice messages, callers, etc.

Recording Menu

The **Recording** menu is used to configure when to start and stop recording (Auto Recording). This menu is also used to configure the action taken when the voice message mailbox is full (When Mailbox Full).

Auto Recording

The Auto Recording menu is used to determine when recording begins.

Available options for this menu are:

Disabled The panel only records when AFK mode is activated and somebody is leaving a message.

*Rolling Buffer*The panel continuously records the last 30 seconds of audio, regardless of a voice message being left or not. A caller can still leave a voice message if the panel is AFK and the caller does the Shift+Talk action. (Rolling Buffer and Voice Messages are not mutually exclusive).

When Mailbox Full

Delete OldestWhen the voice message has reached its limit (7 messages), the oldest voice message is deleted from the queue to make room for an incoming message.

*Reject New*When a call comes to a keypanel where the voice message has reached its limit (7 messages), the new caller cannot leave a voice message until space becomes available.

To configure how incoming audio is handled while listening to voice message, do the following:

- 1. Starting at the Audio Options VM Options menu, select Playback.
- 2. Press the SEL button. Isolate and Mix appear in the panel display.
- 3. Using the arrow buttons, select **Isolate** or **Mix**. *An arrow appears next to the selected option.*

To configure auto-recording on the keypanel, do the following:

- 1. Starting at the Audio Options|VM Options menu, select Recording.
- 2. Press the SEL button. Auto-Recording and When Mailbox Full appears in the panel display.
- 3. Using the arrow buttons, select **Auto-Recording**.
- 4. Press the SEL button. Disabled and Rolling Buffer appear in the panel display.
- 5. Using the arrow buttons, select **Rolling Buffer** for the keypanel to record the 30 seconds on a loop. *An arrow appears next to the selected option.*

To configure how incoming message requests are handled when the voice message mailbox is full, do the following:

- 1. Starting at the Audio Options |VM Options menu, select Recording.
- 2. Press the SEL button. Auto-Recording and When Mailbox Full appears in the panel display.
- 3. Using the arrow buttons, select When Mailbox Full.
- Press the SEL button. Delete Oldest and Reject New appear in the panel display.
- 5. Using the arrow buttons, select **Delete Oldest** to remove the oldest voice message to make room for new messages. OR

Using the arrow buttons, select **Reject New** to reject the voice message request from incoming callers. *An arrow appears next to the selected option.*

Menu System, Display

Use this menu to display information about the keypanel configuration.

The information available for display is as follows:

Assign Type Auto Dial Chans On Chime Exclusive Key Groups Key List Level 2 (Key Assignments) Listen (Assignments) MAC Address Matrix Panel ID Solo Key (Keypanel Firmware) Version

Display Menu, Assign Type

Assign Type displays the talk level 1 assignment types for all keys.

To display the types of key assignments assigned to the DKP-4016, do the following:

- 1. On the keypanel keypad, press **MENU**. *The Information menu appears*.
- 2. Using the left and right arrow buttons, select **Display**.
- **3.** Press the **SEL button**. *The Display submenu appears*.
- 4. Using the left and right arrow buttons, select Assign Type.
- Press the SEL button. The assignment types appear on the appropriate key displays.

Display Menu, Auto Dial

Auto Dial displays the keypanel keys assigned 1-touch auto dial numbers. 1-Touch auto dial numbers are configured using the locally stored numbers on the keypanel. Once a 1-touch auto dial key is configured, press the configured key to cause the TIF to go off-hook and auto dial the selected number.

To display the auto dial numbers assigned to the keypanel keys, do the following:

- 1. Starting at the Display menu, select Auto Dial.
- 2. Press the SEL button.

1-Touch Auto Dial appears in the panel display and the keys with 1-Touch Auto Dial numbers assigned are indicated with a red bar talk bar.

Display Menu, Chans On

Chans On displays a scroll list of all intercom ports with crosspoints currently closed to this keypanel. Chans On is typically used to locate an open mic or other open audio source that needs to be shut off. The most likely cause is a talk key that has been left on at some keypanel. In this case, use the arrow buttons to quickly page-scroll through the list of names. Press the call waiting window key to ask the person at the other end of the connection to turn off the talk key.

To display the Chans On information, do the following:

- 1. Starting at the Display menu, select Chans On.
- Press the SEL button. The Chans On display appears showing the active channels.

Display Menu, Chime

Chime displays all keys with the chime option enabled on them in red. For more information, see "Key Options Menu, Chime" on page 210.

To display keys with Chime enabled, do the following:

- 1. Starting at the Display menu, select Chime.
- Press the SEL button. The Chime display appears showing chime enabled keys in red.

Display Menu, Exclusive

Exclusive displays all keys with the exclusive key assignment. For more information, see "Key Options Menu, Exclusive" on page 211.

To display the Exclusive Keys information, do the following:

- 1. Starting at the Display menu, select **Exclusive**.
- 2. Press the SEL button. *The Exclusive display appears showing exclusive keys in red.*
 - **NOTE:** You can assign more than one (1) Exclusive key. Only one (1) key marked as an Exclusive key can be turned on at any time. Pressing an Exclusive key turns off any other Exclusive key already active.

Display Menu, Key Groups

Key Groups displays a scroll list of groups available on the keypanel.

To display the different groups available, do the following:

- 1. Starting at the Display menu, select Key Groups.
- 2. Press the SEL button. Group 1, Group 2, Group 3, and Group 4 appear in the panel display.
- 3. Using the arrow buttons, select the Group you want to display.
- Press the SEL button. The Master key appears in red, while the slave keys appear in green.

Display Menu, Key List

Key List displays and allows users to see all the other assignments on other keypanel pages not currently showing in the keypanel display.

To display the Key List information, do the following:

- 1. Starting at the Display menu, select **Key List**.
- Press the SEL button. The Key List displays all the assignments not currently displayed on the keypanel.

Display Menu, Level 2

Level 2 displays the talk level 2 assignments for any key that has them assigned. Talk level 2 assignments are used to call two (2) users at one (1) time, activated when the Level 1 assignment is used.

To display the Level 2 Talk information, do the following:

- 1. Starting at the Display menu, select Level 2.
- Press the SEL button. The Level 2 display appears showing the level 2 talk assignments.

Display Menu, Listen

Listen displays the listen assignments for all keys, if applicable.

To display the Level 2 Talk information, do the following:

- 1. Starting at the Display menu, select Listen.
- Press the SEL button. The Listen display appears showing the listen assignments for all keys (if assigned).

Display Menu, MAC Address

MAC Address displays the MAC Address of the keypanel.

To display the MAC Address, do the following:

- 1. Starting at the Display menu, select MAC Address.
- 2. Press the SEL button. The MAC Address for the keypanel appears.

Display Menu, Matrix

Matrix displays the intercom system name for all talk level 1 key assignments. The local intercom is represented by a green key, while a remote intercom is represented by a red key. If a key assignment is not present on a key, an unassigned key displays.

In non-trunked intercom systems, the intercom system name is always LOCL (local). In trunked systems, intercom system names are created in TrunkEdit (*Intercoms*|*Names*).

To display the matrix intercom system name, do the following:

- 1. Starting at the Display menu, select Matrix.
- Press the SEL button. The Matrix display appears showing the matrix intercom system.

Display Menu, Panel ID

Panel ID displays the port number to which the keypanel is connected.

NOTE: When the keypanel is not scroll enabled, the Panel ID displays only the port number in the panel display. When the keypanel is scroll enabled, the port number and port alpha are displayed.

To display the panel ID, do the following:

- 1. Starting at the Display menu, select **Panel ID**.
- 2. Press the SEL button. *The Panel ID display appears showing the port number and alpha (if applicable) for the keypanel.*

Display Menu, Solo

Solo displays the key with the solo assignment. For more information, see "Key Options Menu, Latching" on page 213.

To display the Solo Key information, do the following:

- 1. Starting at the Display menu, select **Solo**.
- Press the SEL button. The Solo display appears showing solo keys in red.

NOTE: You may only assign one (1) solo key at a time.

Display Menu, Version

Version displays the firmware version currently running on the keypanel.

NOTE: For firmware upgrades, contact customer service. The keypanel firmware can be upgraded through AZedit.

To display the firmware version currently loaded on the keypanel, do the following:

- 1. Starting at the Display menu, select Version.
- 2. Press the SEL button. The Version display appears showing firmware version for the keypanel.

Menu System, Key Assign Menu

The Key Assign menu is used to assign intercom key assignments and auto functions to keypanel keys.

Available options for this menu are:

Matrix (only in trunked systems) Pt-to-Pt Party Line IFB Special List Sys Relay Camera ISO UPL IFSL Auto Func

To access the key assign menu options, do the following:

1. Starting at the Key Assign menu, select the key assignment type you want to assign.

2. Press the SEL button.

A scroll list of available assignments appears.

Key Assign Menu, Matrix (Trunked System Only)

Matrix only appears for trunked intercom systems. You must select a remote intercom matrix before assigning intercom keys to destinations in that matrix. You do not need to select matrix to assign keys to destinations in your own matrix. Also, you do not need to select matrix when assigning an auto function key to a matrix.

To assign a remote assignment to the DKP-4016/4016W, do the following:

- 1. Starting at the KeyAssign Matrix menu, select a **remote intercom**.
- 2. Press the SEL button. A scroll list of available assignments appears.
- 3. Using the arrow buttons, select the **assignment** you want to assign to the keypanel key.
- 4. Press the SEL button. A list of auto-functions appear.
- 5. Using the arrow buttons, select the **auto-function** you want to assign to the assignment, if applicable.
- 6. Press the SEL button. *Tap Key appears in the panel display.*
- 7. Press down on the **keypanel key position** where you want the assignment to appear. *The alpha name appears on the key.*

Key Assign Menu, Pt-to-Pt

Pt-to-Pt assigns a key that talks or listens to another intercom port.

NOTE: Some Pt-to-Pt destinations may be non-keypanel devices that cannot activate talk and listen paths. Therefore, if you want full communication, you may need to assign both talk and listen on the key. For more information, see "Key Assign Menu, Auto Func" on page 208.

To assign Pt-to-Pt to the keypanel key, do the following:

- 1. Starting at the Key Assign|Pt-to-Pt menu, select the **port** you want to assign to the keypanel key.
- 2. Press the SEL button. *A list of auto-functions appear.*
- 3. Using the arrow buttons, select the **auto-function** you want to assign to the Pt-to-Pt assignment, if applicable.
- 4. Press the SEL button. *Tap Key appears in the panel display.*
- **5.** Press down on the **keypanel key position** where you want the Pt-to-Pt assignment to appear. *The key color changes and the alpha appears on the key.*

Key Assign Menu, Party Line

Party Line assigns a key that talks and/or listens to a party line. Party Lines are defined in AZedit.

NOTE: Party Line members are usually non-keypanel devices that cannot activate talk and listen paths. Therefore, if you want full communication, you need to assign both talk and listen on the key. If all communications are normally 2-way, you may wish to assign the key as Talk+Auto Listen.

To assign a Party Line to the keypanel key, do the following:

- 1. Starting at the KeyAssign|Party Line menu, select the **party line** you want to assign to the keypanel key.
- 2. Press the SEL button. A list of auto-functions appear.
- 3. Using the arrow buttons, select the **auto-function** you want to assign to the Party Line assignment, if applicable.
- Press the SEL button. Tap Key appears in the panel display.
- 5. Press down on the **keypanel key position** where you want the Party Line assignment to appear. *The key color changes and the alpha appears on the key.*

Key Assign Menu, IFB

IFB assigns the IFB assignment type to a key. By default, all IFBs are restricted. You must select the appropriate scroll enable check box in AZedit, to see IFBs.

To assign an IFB to the keypanel key, do the following:

- 1. Starting at the KeyAssign IFB menu, select the IFB assignment you want to assign to the keypanel key.
- 2. Press the SEL button. *A list of auto-functions appear.*
- 3. Using the arrow buttons, select the auto-function you want to assign to the IFB assignment, if applicable.
- Press the SEL button. Tap Key appears in the panel display.
- 5. Press down on the **keypanel key position** where you want the IFB assignment to appear. *The key color changes and the alpha appears on the key.*

Key Assign Menu, Spcl List

Spcl List assigns a key that talks and/or listens to a special list. The key is not available until members have been assigned to the special list in AZedit.

NOTE: Special List members can be non-keypanel devices that cannot activate talk and listen paths. Therefore, if you want full communication with all members of the special list, you may need to assign both talk and listen on the key.

To assign a Special List to the keypanel key, do the following:

- 1. Starting at the KeyAssign|Special List menu, select the Special List you want to assign to the keypanel key.
- 2. Press the SEL button. *A list of auto-functions appear.*
- 3. Using the arrow buttons, select the **auto-function** you want to assign to the Special List assignment, if applicable.
- Press the SEL button. Tap Key appears in the panel display.
- 5. Press **down** on the keypanel key position where you want the Special List assignment to appear. *The key color changes and the alpha appears on the key.*

Key Assign Menu, Sys Relay

Sys Relay refers to any of several types of control devices that can exist in the intercom system, including:

- The 8 GPI outputs from an ADAM Frame (J11 on the XCP-ADAM-MC Breakout Panel).
- The GPI outputs from an Cronus (J9 on the back of Cronus).
- The GPI outputs of an Zeus III Frame (located on the rear panel).
- The 16 GPI outputs of a UIO-256 or GPIO-16 Frame (J5 on the UIO-256/GPIO-16 back panel).

To assign a Relay to the keypanel key, do the following:

- 1. Starting at the KeyAssign|Sys Relay menu, select the **Relay** you want to assign to the keypanel key.
- 2. Press the SEL button.
 - A list of auto-functions appear.

NOTE: You will not hear anything if you listen to a Relay, but you can activate the relay with either a talk or listen key.

- 3. Using the arrow buttons, select the **auto-function** you want to assign to the relay assignment, if applicable.
- 4. Press the SEL button. *Tap Key appears in the panel display.*
- **5.** Press down on the **keypanel key position** where you want the Relay assignment to appear. *The key color changes and the alpha appears on the key.*

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Key Assign Menu, Camera ISO

Camera ISO assigns an **ISO** (isolate) assignment type to the key. By default, all ISOs are restricted. You must select the appropriate scroll enable check box in AZedit, to see ISOs.

To assign a Camera ISO to the keypanel key, do the following:

- 1. Starting at the KeyAssign|Camera ISO menu, select the ISO you want to assign to the keypanel key.
- 2. Press the SEL button. *A list of auto-functions appear.*
- 3. Using the arrow buttons, select the **auto-function** you want to assign to the Camera ISO assignment, if applicable.
- Press the SEL button. Tap Key appears in the panel display.
- 5. Press down on the **keypanel key position** where you want the Camera ISO assignment to appear. *The key color changes and the alpha appears on the key.*

Key Assign Menu, UPL Resources

UPL Resources assigns a key the UPL resource assignment type to the key. By default, all UPL resources are restricted. You must select the appropriate scroll enable check box in AZedit, to see UPLs.

To assign a UPL to the keypanel key, do the following:

- 1. Starting at the KeyAssign|UPL menu, select the UPL you want to assign to the keypanel key.
- 2. Press the SEL button. *A list of auto-functions appear.*

NOTE: You will not hear anything if you listen to a UPL Resource, but you can activate the UPL with either a talk or listen key.

- 3. Using the arrow buttons, select the **auto-function** you want to assign to the UPL assignment, if applicable.
- 4. Press the SEL button. *Tap Key appears in the panel display.*
- 5. Press down on the **keypanel key position** where you want the UPL assignment to appear. *The key color changes and the alpha appears on the key.*

Key Assign Menu, IFB SL

IFB SL (IFB Special List) is similar to a special list, except the members of these special lists are IFB assignments. IFB SLs are useful when a producer of a news program needs to talk to all the talent at the same time (most talent assignments are IFB assignments).

To assign an IFSL to the keypanel key, do the following:

- 1. Starting at the KeyAssign|IFSL menu, select the IFSL you want to assign to the keypanel key.
- 2. Press the SEL button. *A list of auto-functions appear.*
- 3. Using the arrow buttons, select the **auto-function** you want to assign to the IFSL assignment, if applicable.
- Press the SEL button. Tap Key appears in the panel display.
- 5. Press down on the **keypanel key position** where you want the IFSL assignment to appear. *The key color changes and the alpha appears on the key.*

Key Assign Menu, Auto Func

Auto Func assigns an auto function to the key.

Available options for this menu are:

AFAuto Follow for listen keys only.Listens to what is assigned on the Talk key.

ALAuto Listen for listen keys only. When Talk is pressed, the Listen turns on.

AMAuto Mute for listen keys only. If Listen is active and Talk is pressed, Listen turns off.

ARAuto Recip for listen keys only.Listen is always on.

ACAll Call for talk level 1 only. Turns all Talk keys on to the left of the AC key, up to the next AC key or the end of the row.

Dim Dim Table function, for talk level 2 on point-to-point keys only.

To assign an Auto Function, do the following:

- 1. Starting at the KeyAssign|Auto Funcs menu, select the auto function you want to assign to the keypanel key.
- 2. Press the SEL button. *Tap Key appears in the panel display.*
- 3. Press the keypanel key to which you want to assign the auto function.

Menu System, Key Options Menu

The **Key Options Menu** is used to configure many of the keypanel operation options, such as auto dial functions, chime keys and duration, exclusive keys, key group assignments, solo key configuration, latching options, button lock, and tally operation.

Available options for this menu are:

Auto Dial Chime Clear Exclusive Icons Key Groups Latching Lock Panel Swap Solo Tallies Turn Off

Key Options Menu, Auto Dial

Auto Dial stores commonly used phone numbers in the auto dial list locally on the keypanel.

You can also create a centralized auto dial list which is stored on the Master Controller and maintained through AZedit. For more information, see "Centralized Auto Dials" on page 243.

You can configure up to 100 locally stored auto dial numbers.

You can also configure 1-Touch TIF Auto Dial. 1-Touch Auto Dials are configured using the locally stored numbers on the keypanel. Once a 1-Touch Auto Dial key is configured, pressing the configured key causes the TIF to go off-hook and auto dial the selected number.

To store an auto dial number, do the following:

- 1. Starting at the Key Options|Auto Dial menu, select Numbers.
- Press the SEL button.
 #01:<empty> appears in the panel display.
- 3. Use the arrow buttons, to scroll to the **auto dial entry** you want to use.

NOTE: There are up to 100 auto dial entries available.

- Press the SEL button.
 #01: with a blinking cursor appears in the panel display.
- 5. Using the keypanel keypad, enter the **phone number** you want to store (for example, 5551234567).

IMPORTANT: You can use either FWD/BACK or Aux Shaft Encoder push (FWD)/MAIN Shaft Encoder push (BACK) on the DKP-4016.

- 6. On the keypanel keypad, press FWD. *Save Number? appears in the panel display.*
- Press the SEL button. The auto dial position number and telephone number appear in the panel display.

To delete a stored auto dial number, do the following:

- 1. Starting at the Key Options|Auto Dial menu, select Numbers.
- Press the SEL button.
 #01:<empty> appears in the panel display.
- 3. Using the arrow buttons, select the Auto Dial number you want to remove.
- 4. Press the SEL button.

#01: with a flashing cursor appears.

NOTE: #01 is used for example purposes only. Depending on the auto dial number you want to delete determines the number seen here.

- 5. Press FWD. Save Number? appears.
- 6. Press the SEL button.

#01: <*empty*> appears in the panel display. The auto dial number is erased.

- 1. Starting at the Key Options Auto Dial menu, select 1-Touch.
- 2. Press the SEL button. *Tap Key appears in the panel display.*
- **3.** Tap the **key** you want to put the TIF 1-Touch assignment. *A scroll list of auto dial phone numbers appear.*
- 4. Using the arrow buttons, select the **phone number** you want to assign to the key.
 - **NOTE:** To hang up after using the 1-Touch key, you must use the TIF menu or assign Drop to a UPG key. For more information, see "User Programmable Buttons" on page 64.

Key Options Menu, Chime

Chime indicates a chime tone sounds on incoming call announcements for selected keypanel keys. You can configure the chime tone to activate for a specified amount of time after a call is received.

The range for this field is one (1) second to five (5) minutes.

NOTE: Keys that have the currently selected Chime and Duration are shown with a red talk bar. Keys with a different chime or duration are shown with a green talk bar. Keys with no chime do not show a talk bar.

To add a chime tone to keypanel keys, do the following:

- 1. Starting at the Key Options, select Chime.
- 2. Press the SEL button. *A Chime scroll box and a Duration scroll box appear in the panel display.*
- **3.** Using the up and down arrow buttons, select the **system chime** you desire (for example, System #1 through System #12. Additionally, if licensed, User #1 through User #4.
- Press the SEL button. The focus moves to the duration scroll box.
- 5. Using the up and down arrow buttons, select the duration of the chime.
- 6. Tap down on each keypanel key to which you want to add Chime.
- **NOTE:** Assigning <none> clears the chime from the key. When you change chime types, if Preview is enabled, you hear the chime play. Also, if you lift the listen key for any key showing it has a chime assigned, you hear the chime associated with that key.

Key Options Menu, Clear

The Clear menu option is used to clear any key options that have been assigned to a specific key or to clear the UPG button assignment.

To clear a key's key options, do the following:

- 1. Starting at the Key Options menu, select Clear.
- 2. Press the SEL button. *Tap Key appears in the panel display.*
- Tap the key you want to clear the key options from. The key options are removed from the keypanel key.

To clear a UPG key options, do the following:

- 1. Starting at the Key Options menu, select Clear.
- 2. Press the SEL button. *Tap Key appears in the panel display.*
- **3.** Press or tap the **UPG key** you want to clear the UPG programming from. *The key options are removed from the UPG key.*

Key Options Menu, Exclusive

Exclusive allows the user to set up keys that cause any other exclusive keys to turn off when activated. Unlike the solo option, when the exclusive option is deactivated, the other exclusive key turns off and does not turn back on. You can assign multiple exclusive keys.

To create an exclusive key assignment, do the following:

- 1. Starting at the Key Options menu, select Exclusive.
- Press the SEL button. Tap Key appears in the panel display.
- **3.** Tap **down** on any keypanel key you want to assign the exclusive key option. *The key display turns red.*

To remove an exclusive key assignment, do the following:

- 1. Starting at the Key Options menu, select Exclusive.
- Press the SEL button. Tap Key appears in the panel display.
- **3.** Tap **down** on each red keypanel key from which you want to remove the exclusive key option. *The selected keys return to the unassigned state (light blue color).*

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Key Options Menu, Icons

The **Icons** menu option is used to enable icon overlays for various key states. There are seven (7) key states that can be indicated using an icon.

By default, icons are enabled, which means they are displayed.

The icons available are:

*	Gold Star	Key is Solo Key
8	Black Phone	Key has TIF Assignment
٩	Globe	Key has Remote/Trunk assignment
4	Bell	Key has Chime
÷	Plus	Key is Group Master
#	Number Sign	Key has Auto-Dial
	Minus	Key is Exclusive

To enable/disable icon overlays, do the following:

- 1. Starting at the Key Options menu, select **Icons**.
- 2. Press the SEL button. An Icon scroll box and a Display scroll box appear in the panel display.
- 3. Using the up and down arrows, select the key state you want from the Icon scroll box.
- 4. Using the left and right arrows, select **Display**.
- 5. Using the up and down arrows, select **Enable** to display the icon. OR

Using the up and down arrows, select **Disable** to hide the icon.

6. Repeat steps 3 through 5 until you are finished.

Key Options Menu, Key Groups

Key Groups is used to create a key group. A key group allows the user to activate a group of keys by activating one (1) key (the master key). When the master key is activated, all keys in the group become active.

You can create up to four (4) key groups.

To create a key group, do the following:

- 1. Starting at the Key Options Key Groups menu, select the Group (1-4) you want to create.
- 2. Press the SEL button. *Tap Master Key appears in the panel display.*
- Tap down on the keypanel key you want to act as the master key. OR

Press **FWD** to skip creating a Master key *The selected key displays a red talk bar and Tap Slave Key(s) appears in the panel display.*

NOTE: A group without a master key cannot be activated by a key press, but may still be activated by a GPI Input or UPG key.

4. Tap **down on the keypanel keys** you want to be activated when the master key is selected. *The selected keys display a green* talk or listen bar.

To delete a key group, do the following:

- 1. Starting at the Key Options Key Groups menu, select the Group (1-4) you want to delete.
- Press the SEL button. Tap the Master Key appears in the panel display.
- **3.** Press the **FWD** key. *The selected key returns to the unassigned state (light blue color) and Tap Slave Key(s) appears in the panel display.*
- **4.** Tap **down on the green keypanel keys** you want to remove from the group. *The selected keys lose their green talk or listen bar.*

Key Options Menu, Latching

Latching is used to enable or disable the keypanel key to stay on when pressed. When Latching is enabled, the talk function stays on after the talk key is pressed briefly. Otherwise, the talk function only works when the button is pressed. You configure globally across all keys, or on a per key basis.

NOTE: A key only latches if it is pressed and released within 0.5 seconds. Otherwise, the key always turns off when released.

By default, latching is *enabled*.

To set latching on a keypanel key, do the following:

- 1. Starting at the Key Options menu, select Latching.
- Press the SEL button. Global and Per Key appear in the panel display.
- 3. Using the left and right arrow buttons, select either Global or Per Key.
- **4.** Press the **SEL button**. *Disabled and Enabled appear in the panel display.*
- Using the arrow buttons, select Enabled or Disabled. An arrow appears next to the selected option.

Key Options Menu, Lock (Button Lock)

Lock is used to lock keypanel keys in the on or off position. Each key may be independently locked on or off.

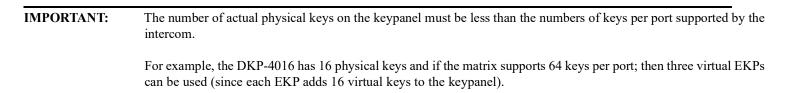
To lock a button on, do the following:

- 1. Starting at the Key Options | menu, select Lock.
- 2. Press the SEL button. *Tap Key appears in the panel display.*
- 3. Tap a key once to lock it on. *A green indicator appears. This indicates the key is locked on.* OR Tap the key again to lock it off. *A red indicator appears indicating the key is locked off, meaning the user cannot turn the key on or off.* OR Tap the key again to release the lock.

Key Options Menu, Panel Swap

Panel Swap gives users the ability to quickly and easily change a group of keypanel assignments on the keypanel. This is done through the use of virtual expansion panels. Panel swap differs from changing setup pages because the keys can stay active even when they are no longer visible on the main panel. Also, panel swap allows the user a 1-touch trigger to complete two (2) actions at once.

Even though the DKP-4016 does not support physical EKPs, Panel Swap and Virtual EKPs are still available for use.



Panel swap can be activated by (or triggered by) a UPG key, a GPI Input, or GPI Output allowing local or remote access. A GPI board does not need to be installed to be controlled by GPI Outputs. However you must set up a Setup Page in AZedit for the virtual EKP to be able to assign key assignments.

Panel Swap Control Options

There are five (5) ways to activate panel swap:

Keypad FWD

Keypad BACK

Keypad UPG1 to UPG 9

GPI Inputs Opto 1 and Opto 2

GPI Outputs Relay 1 and 2

Navigation Mode for Panel Swap

Once you have selected the control trigger, select what panel swap action is performed:

Cycle ToCycle to the Next or Previous panel.

Switch ToSwitch to a specific panel (for example, MAIN, EKP1, EKP2, etc.

The following icon appears briefly when the Main page is showing

The following icon appears when the first virtual EKP is showing **EKP1**. Subsequent virtual EKPs display their number in the icon.

Toggle ToToggle between MAIN and a specific virtual EKP.

UnassignedUsed to erase the panel swap action from a trigger or control mechanism.

Panel Swap Key States

Key States define what happens to the key states when a row of keys is not currently visible. There are two (2) possible modes of operation:

Force OffTalk and listen key states are forced off when the row of keys is not visible.

RetainTalk and listen key states are retained when the row of keys is not visible.

When retain is selected and active talk or listen keys are not visible, the following icon shows in the panel display.

In the menu structure, under Panel Swap, the menu items Control and Key States appear, but are unavailable on the keypanel until one (1) or more virtual EKPs are enabled.

To enable virtual keypanels, do the following:

- 1. Starting at the Key Options Panel Swap menu, select Virtual EKPs.
- 2. Press the SEL button. None, 1 EKP, 2 EKPs, etc appear in the panel display.

IMPORTANT: The number of virtual EKPs that appear in the selections depends on the number of keys per port the intercom is configured for.

- 3. Using the arrow buttons, select the **maximum number of virtual EKPs to enable**.
- 4. Press the SEL button. An arrow appears next to the selected option.

To configure how to access the virtual EKPs from the front of the keypanel, do the following:

- 1. Starting at the Key Options|Panel Swap menu, select Control.
- 2. Press the SEL button. GPI Inputs, GPI Outputs, and Keypad appear in the panel display.
- 3. Using the arrow buttons, select the **control mechanism** desired.
- **4.** Press the **SEL button**. *The appropriate sub-control mechanism appears (see "Panel Swap Control Options" on page 214).*
- 5. Using the arrow buttons, select the sub-control mechanism.
- 6. Press the SEL button. Cycle To, Switch To, Toggle To, and Unassigned appear in the panel display.
- 7. Using the arrow buttons, select the **navigation mode** desired.
- Press the SEL button.
 A list of actions for the keypanel action appears in the panel display (see "Panel Swap Key States" on page 215).
- 9. Using the arrow buttons, select the action desired.
- **10.** Press the **SEL button**.

An arrow appears next to the selected option.

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To configure the panel swap key states, do the following:

- 1. Starting at the Key Options Panel Swap menu, select Key States.
- 2. Press the SEL button. Force Off and Retain appear in the panel display.
- 3. Using the arrow buttons, select the key state you want to enable (see "Panel Swap Key States" on page 215).
- **4.** Press the **SEL button**. *An arrow appears next to the selected option.*

To erase any programming from the panel swap configuration, do the following:

- 1. Starting at the Key Options Panel Swap menu, select Control.
- 2. Press the SEL button. GPI Inputs, GPI Outputs, and Keypad appear in the panel display.
- 3. Using the arrow buttons, select the control mechanism you want to erase.
- Press the SEL button. The appropriate sub-control mechanism appears (see "Panel Swap Control Options" on page 214).
- 5. Using the arrow buttons, select the sub-control mechanism you want to erase.
- 6. Press the SEL button. Cycle To, Switch To, Toggle To, and Unassigned appear in the panel display.
- 7. Using the arrow buttons, select **Unassigned**.
- Press the SEL button. An arrow appears next to the selected option.

Key Options Menu, Solo

Solo allows the user to set up a key that causes all other keys to turn off when activated. However, when the solo key is released, the keys that were turned off by the solo key turn back on.

You can assign only one (1) solo key.

To create a solo key, do the following:

- 1. Starting at the Key Options menu, select Solo.
- Press the SEL button. Tap Key appears in the panel display.
- Tap down on the keypanel key you want to configure as solo. The selected talk key indicator turns red.

To remove a solo key, do the following:

- 1. Starting at the Key Options menu, select Solo.
- Press the SEL button. Tap Key appears in the panel display.
- **3.** Tap **down on the red solo keypanel key** you want to remove the solo assignment. *The selected talk key indicator turns red.*

Key Options Menu, Tallies

Tallies are used to indicate incoming calls with blinking alpha assignments. You can configure tally time as 5, 10, or 15 seconds or set it as indefinite.

If indefinite is selected, when a caller presses and releases the talk key, a tally with a minimum duration appears. If the call is answered before the minimum duration is met, the tally is cancelled. However, if indefinite is selected and a caller presses and holds (or latches) the talk key, the tally continues until the caller releases the key. This means the tally continues through the call if the caller does not release the key.

NOTE: When DKP-4016/4016W keypanels are connected to legacy intercoms (for example, intercoms that do not support Enhanced Tallies, the available options for this menu are relevant.

When DKP-4016/4016W keypanels are connected to intercoms that support Enhanced Tallies, the Enhanced Tallies view allows you to globally configure how the tally behaves. (the options in the Tally menu in the keypanel are not relevant). For more information, see "Enhanced Tallies" on page 74.

By default, tallies are set to 15 seconds.

To set the tally time on an incoming call, do the following:

- 1. Starting at the Key Options Tallies menu, select **Min Duration**.
- 2. Press the SEL button. A Min Duration scroll box appears in the panel display.
- 3. Using the up and down arrow buttons, select the **duration** you desire.

To set the tally time to indefinite on an incoming call, do the following:

- 1. Starting at the Key Options Tallies menu, select Indefinite.
- 2. Press the SEL button. Disabled and Enabled appear in the panel display.
- 3. Using the up and down arrow buttons, select **Disable** or **Enable**.

Key Options Menu, Turn Off

The **Turn Off** menu item allows the user to quickly turn off all keys, all talk keys, or all listen keys. This menu item can be used with the programmable UPG keys to create a UPG key which can turn off all keys with one (1) push of a key.

To turn off keys on the keypanel using the menu, do the following:

- 1. Starting at the Key Options|Turn Off menu, select All Keys, Talk Keys, or Listen Keys.
- 2. Press the SEL button. *Turn Keys Off? appears in the keypanel panel display.*
- **3.** Press the **SEL button**. *Keys Turned Off appears in the keypanel panel display.*

To configure a UPG to turn off keys, do the following:

- 1. Starting at the Key Options|Turn Off menu, select All Keys, Talk Keys or Listen Keys.
- 2. Press the SEL button. *Turn Keys Off? appears in the keypanel panel display.*
- 3. Press the SEL button. Keys Turned Off appears in the keypanel panel display.
- **4.** On the keypanel, press and hold a **UPG key** until the message Menu position saved appears in the keypanel panel display. *Keys Turned Off appears in the keypanel panel display once the UPG key is released.*

To configure a UPG to require a confirmation before turning off keys, do the following:

- 1. Starting at the Key Options|Turn Off menu, select All Keys, Talk Keys or Listen Keys.
- 2. Press the SEL button. *Turn Keys Off? appears in the keypanel panel display.*

- **3.** On the keypanel, press and hold a **UPG key** until the message Menu position saved appears in the keypanel panel display. *Turn Keys Off? reappears in the keypanel panel display.*
- 4. Press the SEL button. Keys Turned Off appears in the keypanel panel display.

Menu System, OMNEO Offers

The **OMNEO Offers** menu item is used to configure the keypanel to communicate with the matrix via an OMNEO or AIO connection. From this menu, you can also configure the OMNEO channels to be used for AUX Inputs.

OMNEO Matrix Connection Configuration

To configure an available OMNEO device connection port, do the following:

- 1. Starting at the OMNEO Offers Keypanel menu, select OKP.
- 2. Press the SEL button. A list of available OMNEO offers appear.
- **3.** Using the arrow buttons, select the **OMNEO offer** you want to use. *An arrow appears next to the device.*

OMNEO Aux Port Configuration

To configure the OMNEO channels as Aux Inputs, do the following:

- 1. Starting at the OMNEO Offers|Keypanel menu, select Aux Input.
- 2. Press the SEL button. OMNEO 1 and OMNEO 2 appears in the panel display.
- 3. Using the arrow buttons, select OMNEO 1 or OMNEO 2 (OMNEO 3-8 available, if licensed).
- Press the SEL button. A list of available OMNEO offers appears.
- 5. Using the arrow buttons, select the OMNEO offer you want to configure as an Aux Input.
- 6. Press the SEL button. The OMNEO Aux Input is configured.

Menu System, RVON Offers (Only available when an RVON-IO is detected)

The **RVON Offers** menu item is used to configure the matrix connection when an RVON-I/O is attached to the AIO port on the back of the keypanel.

RVON-IO Matrix Connection

*RVON-I/O*RVON-16, RVON-8, RVON-C, and RVON-I/O (in local mode). Use the Frame connection on the back panel of the keypanel.

NOTE: For more information about RVON-I/O configuration, see the RVON-I/O user manual (F.01U.193.280).

To configure the Matrix connection port, do the following:

1. Starting at the RVON Offers|Keypanel menu, select the Matrix connection type you want to use.

NOTE: If an RVON-I/O is connected to the keypanel, RVON-I/O replaces the AIO menu option.

2. Using the arrow buttons, select the **port** you want to use. *An arrow appears next to the port.*

Menu System, Save Config

The **Save Config** menu option is used to save custom settings made in the Audio Options, Key Options or Service menus. Once you have made modifications via these menus, run Save Cfg to store the custom settings in non-volatile memory. This ensures your custom settings are saved when the keypanel is powered down. You can run Reset Config (see "Service Menu, Reset Cfg" on page 235), to erase all custom settings.

To run a save config, do the following:

- 1. On the keypad, press MENU. *The main menu appears*.
- 2. Using the arrow buttons, select Save Config.
- **3.** Press the **SEL button**. *Configuration Saved appears in the panel display.*

Menu System, Service

The information available for key assign is as follows:

Alphas Aux Select CWW Display Footswitch Intercom Mode Key View Keypad LCD Backlight Local GPIO Mirror **OMNEO** Setup Page Change Reset Cfg **RVON Setup** Scrn Saver Set Address Snoop Tally Test Panel

Service Menu, Alphas

The Alphas menu is used to select the alpha size (length) and type to be displayed for key assignments.

NOTE: When a Reset Cfg is performed, the Alpha Size and Poll ID do not get reset.

Available options are:

4 Chars 6 Chars 8 Chars 8 Chars (Unicode)

IMPORTANT: Keypanels on the same AIO-8, or on the same group of eight (8) on an AIO-16, Zeus I/II (but not III), or ADAM CS must have the same alpha size selected. But each group of eight (8) can support a different alpha size.

To set the alpha size, do the following:

- 1. Starting at the Service Alphas menu, select 4 Chars, 6 Chars, 8 Char, or 8 Chars (Unicode).
- 2. Press the SEL button. Cancel and Save and Restart appear in the panel display.
- 3. Using the arrow buttons, select Save and Restart.
- **4.** Press the **SEL button**. *The keypanel restarts itself with the new alpha size.*

Service Menu, Aux Select

The **Aux Select** menu is used to select the number of analog auxiliary inputs on the keypanel when the panel has been licensed for OMNEO 3-8.

When a keypanel is not licensed, meaning it only has OMNEO 1 and 2, then the number of analog aux inputs is the maximum supported by the panel:

- KP-5032/4016 Maximum number of Analog Aux = 2, OMNEO 1-2, plus Aux 1-2
- DKP-4016 Maximum number of Analog Aux = 1, OMNEO 1-2, plus Aux 1
- KP-3016- Maximum number of Analog Aux = 0, OMNEO 1-2
- KP-3016A does not support OMNEO

When the keypanel is licensed for OMNEO 3–8, OMNEO 8 and Aux 1 are multiplexed, meaning you can have one or the other, but not both. The same rule applies to OMNEO 7 and Aux 2; both are multiplexed and both cannot be used together. Also, you cannot have Aux 2 without Aux 1.

The options available if OMNEO 3-8 are licensed:

- Number of Analog Aux = 2, OMNEO 1-6, plus Aux 1-2
- Number of Analog Aux = 1, OMNEO 1-7, plus Aux 1
- Number of Analog Aux = 0, OMNEO 1-8

Service Menu, CWW

The **CWW** menu is used to configure the CWW (Call Waiting Window). There are two configuration options; how many calls can be shown in the CWW and what happens to the highlight when a new call comes in to the keypanel.

Number of Entries

The **Number of Entries** sub-menu is used to define how many calls can be shown in the CWW. The maximum number of entries is 9, while the minimum is 3 (2 in Unicode).

To select the number of entries allowed for the CWW, do the following:

- 1. Starting at the Service menu, select CWW.
- 2. Press the SEL button. Number of Entries and On New Caller appears in the panel display.
- 3. Using the arrow buttons, select Number of Entries.
- 4. Press the SEL button. The Number of CWW Entries scroll list appears.
- 5. Using the arrow buttons, select between 3 and 9 entries.

On New Caller

The On New Caller sub-menu is used to configure what action occurs in the CWW when a new call enters the queue.

The options available for this menu are:

Select New CallWhen a new call enters the CWW queue, it goes to the top of the list and is then selected. The highlight moves to this item.

Don't Select (default) When a new call enters the CWW queue, it goes to the top of the queue, but the highlighted item does not change.

Select If IdleWhen a new call comes into the CWW queue, it goes to the top of the queue list and the highlight is moved to it only if the user has not interacted with the CWW in the last 5 seconds. Or if the CWW window was not visible.

To configure the action to take when a new call comes into the keypanel, do the following:

1. Starting at the Service menu, select CWW.

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- 2. Press the SEL button. Number of Entries and On New Caller appears in the panel display.
- 3. Using the arrow buttons, select **On New Caller**.
- 4. Press the SEL button. Select New Call, Select If Idle, and Don't Select appear in the panel display.
- 5. Using the arrow buttons, select Select New Call, Select If Idle or Don't Select.

Service Menu, Display

The Display menu is used to enable the menu context, display speaker volume and to switch the display to emulate a KP-32 keypanel.

Menu Context

The **Menu Context** feature is used to enable or disable the bread-crumb navigation in the upper-left corner of the keypanel panel display. Breadcrumb navigation helps provide context in navigating through the keypanel menu.

Display Volume

The **Display Volume** feature is used to enable always-on display of the volume bar for Left Headset, Front Speaker, Matrix, Right Headset, or Rear Speaker, depending on what is selected from the encoder knobs.

KP32 Emulation

The **KP32** Emulation is used to switch the display alphas and background to emulate the KP32 with the black background and green lettering.

IMPORTANT: Only the display of key and key assignment changes, the menu structure and other display elements do not revert to the KP32 display.

To activate KP32 Emulation, do the following:

- 1. Starting at the Service Display menu, select **KP32 Emulation**.
- Press the SEL button. Disabled and Enabled appear in the panel display.
- 3. Using the arrow buttons, select **Enabled**.
- **4.** Press the **SEL button**. *The display panel changes to the KP32 Emulation mode.*

Service Menu, Footswitch

The **Footswitch** menu allows the user to enable the footswitch feature and configure how a latched talk key behaves when the footswitch is released. In normal footswitch operation, latched talk keys go into a ready state waiting for the footswitch to be pressed. When the footswitch is pressed, the latched talk keys become active. Then, when the footswitch is released, the latched talk keys go back into a ready state. You can configure the keypanel so latched talk keys become unlatched when the footswitch is released. In this mode, the footswitch is a one-time operation. Pressing the footswitch turns the keys on and releasing the footswitch turns the keys off, unlatching them so the keys are unable to come on again with the next press of the footswitch. To use the footswitch again, you must re-latch the desired talk keys. For more information, "Key Options Menu, Latching" on page 213.

A footswitch is a foot-triggered switch used to activate keypanel keys.

By default, the Footswitch is *disabled*.

S	Footswitch Active	The footswitch is active.	
FS	Footswitch Enabled	The footswi	When a talk key is latched while the Footswitch is enabled, the key display turns amber to signify it is waiting for footswitch activity.

Enabling

To enable the footswitch, do the following:

- 1. Starting at the Service Footswitch menu, select Mode.
- 2. Press the SEL button. Disabled Enabled appear in the panel display.
- 3. Using the arrow buttons, select **Enabled**.
- **4.** Press the **SEL button**. An arrow appears next to Enabled. When Footswitch is enabled, a green or yellow footswitch appears on the right side of the left panel display.

Disabling

To disable the footswitch, do the following

- 1. Starting at the Service Footswitch menu, select Mode.
- Press the SEL button. Disabled Enabled appears in the panel display.
- 3. Using the arrow buttons, select **Disabled**.
- **4.** Press the **SEL button**. *An arrow appears next to Disabled.*

Latch Operation

To have talk keys unlatch when the footswitch is released, do the following:

- 1. Starting at the Service Footswitch menu, select Latched Keys.
- 2. Press the SEL button. *Retain and Unlatch appear in the panel display.*
- 3. Using the arrow buttons, select **Unlatch**.
- **4.** Press the **SEL button**. *An arrow appears next to Unlatched.*

To have talk keys return to the latched state when the footswitch is released, do the following:

- 1. Starting at the Service|Footswitch menu, select Latched Keys.
- 2. Press the SEL button. *Retain and Unlatch appear in the panel display.*
- 3. Using the arrow buttons, select Retain.
- 4. Press the SEL button. An arrow appears next to Retain.

Service Menu, Intercom Mode

The **Intercom Mode** menu is used to select the type of firmware you have in your intercom so the keypanel can display alphas in the correct font/language and modify the behavior of some functions to match the intercom behavior.

Available options are *Alternate* and *Standard*.

NOTE: Standard mode is the default and should be used in most cases. Alternate mode is primarily used for intercoms running Japanese firmware.

To select the intercom mode, do the following:

- 1. Starting at the Service Intercom Mode menu, select Alternate or Standard. *An arrow appears next to selected option.*
- 2. Press the SEL button. The selections Cancel and Save and Restart appear.

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3. Using the arrow buttons, select **Cancel** to cancel out of the action. OR

Using the arrow buttons, select Save and Restart to save the changes.

4. Press the SEL button.

Service Menu, Key View

The **Key View** menu is used to configure the keypanel keys to show key crosspoint gains, show listen assignments, or show the matrix for each key assignment.

NOTE: Show Lstn and Show Mtx are mutually exclusive options. Only one (1) of these options may be enabled at a time.

Available options for this menu are:

Show Gain The crosspoint gain bar graph for each key is shown below the talk assignment.

Show Lstn The listen assignment for each key is shown above the talk assignment.

Show MtxThe matrix name for each key assignment is shown above the talk assignment.

IMPORTANT: When the keypanel is configured for 8 Char or 8 Char (Unicode), none of these options are available.

To configure the Key View, do the following:

- 1. Starting at the Service menu, select Key View.
- 2. Press the SEL button. Show Gain, Show Lstn, and Show Mtx appear in the panel display.
- **3.** Using the left and right arrow buttons, select **Show Gain** to show gain on the key display. OR

Using the left and right arrow buttons, select **Show Lstn** to show listen assignments on the key display. OR

Using the left and right arrow buttons, select Show Mtx to show the matrix assignments on the key display.

- **4.** Press the **SEL button**. *Disabled and Enabled appear in the panel display.*
- 5. Using the left and right arrow buttons, select **Enabled** or **Disabled**.
- 6. Press the SEL button. An arrow appears next the selected option.

Service Menu, Keypad

Keypad menu is used to configure the default function assigned to the SEL key when not in menu mode and also the keypad backlight behavior.

Backlight

The **Backlight** menu is used to select the color and brightness of the keypad backlight LEDs at various usage states and to configure the keypad mode.

Setup

The **Setup** menu allows you to configure the color and brightness of the keypad backlight LEDs various actions are performed on the keypanel.

Brightness ranges from 0% to 100%. By default, brightness is set to 30% for the Inactive state; and 100% for the Active and Shift states.

Available options for this menu are:

InactiveSet the color and brightness of the keypad backlight LEDs when the keypad is in the inactive state.

ActiveSet the color and brightness of the keypad backlight LEDs when the keypad is in the active state.

Shift StateSet the color and brightness of the keypad backlight LEDs when the keypad is in the SHIFT state. For more information, see "INFO button" on page 39.

Activation

The Activation menu is used to configure how and when the keypad backlights. When Activate is selected, the backlight activates when the user presses any keypad key on the keypanel. Within the Activate menu, you can select whether the first key is processed or swallowed.

Available selections for this field are:

On Keypress (swallowed) The first keypad key pushed when the keypad is Inactive is only used to activate the keypad, the actual keypad key push event is not acted upon.

Note, this action activates the keypad (so the next key is processed), but it may not do anything to the backlight.

On Keypress (processed) The first keypad key pushed when the keypad is Inactive, activates the keypad and then be processed.

AlwaysThe keypad backlight is always in the active state.

NeverThe keypad backlight is always in the inactive state.

NOTE: When the keypanel menu is not active, the backlight stays lit for five (5) seconds of inactivity before returning to the inactive state. However, when the keypanel menu is active, the backlight stays lit for one (1) minute before exiting the menu system and returning to the inactive state.

To configure the keypad Setup option, do the following:

- 1. Starting at the Service Keypad menu, select **Backlight**.
- 2. Press the SEL button. Activation and Setup appear in the panel display.
- 3. Using the left and right arrow buttons, select **Setup**.
- Press the SEL button. Inactive, Active, and Shift State appear in the panel display.
- 5. Using the left and right arrow buttons, select Inactive, Active, or Shift State.
- 6. Press the SEL button. Blue and White appear in the panel display.
- 7. Using the left and right arrow buttons, select the **color** you desire.
- Press the SEL button. The Brightness scroll box appears.
- 9. Using the up and down arrow buttons, select the **brightness** you desire.
- **10.** Press the **SEL button**.

To set the keypad Activation option, do the following:

- 1. Starting at the Service Keypad menu, select **Backlight**.
- 2. Press the SEL button. Activation and Setup appear in the panel display.
- **3.** Using the left and right arrow buttons, select **Activation**.
- **4.** Press the **SEL button**. *Activated (default), Always Inactive, and Always Active appear in the panel display.*
- Using the arrow buttons, select Always On to have the keypad backlight always on. OR

Using the arrow buttons, select **Always Inactive** to have the keypad backlight never on. OR

Using the arrow buttons, select Activated to have the keypad turn on when the keypad is pressed.

If Activated is selected, do the following

- a. Press the SEL button. Processed First Press and Swallow First Press appear in the panel display.
- b. Using the left and right arrow buttons, select Processed First Press or Swallow First Press.

6. Press the SEL button.

An arrow appears next the selected option.

SEL Key

The **SEL Key** menu allows the user to choose what function the SEL key performs when not in menu mode. This menu allows you to set up the SEL key functionality.

Available selections for this field are:

- Auto (default) The key function is automatically selected based on whether you are in Standard or Alternate intercom mode. In Standard mode, the SEL key is assigned Assignment Group functionality, while in Alternate mode, the SEL key is assigned Quick Assign functionality.
- Assignment Groups The key function is given Assignment Groups. This displays the scroll lists of a collection of user-selectable key assignments. When you select a group, a scroll list of the members of the group appear, which then can be called or programmed onto a key. For more information see, "Assignment Groups Page" on page 71.
- *Quick Assign* The key function is given Quick Assign. When you configure the SEL key with Quick Assign, you are actually selecting your most used key type, for example, P-P with AL. When the SEL key is pressed with a quick assign configured to it, a menu appears with Assign or Clear. The user can then quickly configure a key with a preconfigured assignment by selecting Assign, or clear the key assignment by selecting Clear.

To set the configure the SEL key option, do the following:

- 1. Starting at the Service Keypad menu, select Sel Key.
- 2. Press the SEL button. *Auto, Assignment Groups, and Quick Assign appear in the panel display.*
- Using the arrow buttons, select Auto to have the keypad backlight always on. OR Using the arrow buttons, select Assign Groups to have the keypad backlight never on OR

Using the arrow buttons, select Quick Assign to have the keypad turn on when the keypad is pressed.

4. Press the SEL button.

An arrow appears next the selected option.

Service Menu, LCD Backlight

The LCD Backlight menu option allows you to set the brightness of the panel display of all keypanels, just the main panel or any expansion panel connected to the main keypanel.

The range for this field is 0-100%. The default is 65%.

To configure the LCD backlight, do the following:

- 1. Starting at the Service Keypad menu, select LCD Backlight.
- 2. Press the SEL button. The Brightness scroll box appears in the panel display.
- 3. Using the up and down arrow buttons, select the **brightness** you want to display.

Service Menu, Local GPIO

Local GPIO is used to configure GPIO inputs and outputs. Inputs can be assigned to activate intercom keys (including group master keys). Outputs can be activated by talk or UPG keys.

Further configuration can be done to allow GPIO Inputs to track the state of the Output. For example, an output is activated (and is being tracked by an input), the input is also activated. This feature allows GPIO Outputs to control Talk Key or Key Group activation.

In addition to tracking, you can also configure the way an Input GPIO Key Group is configured. By default, when a key group is activated, the keys are forced on until the key group is deactivated. This is referred to as Level Mode. Alternatively, you can configure the key group to Edge Mode. This option turns on keys in a key group when the group is activated, but allows the user to turn off individual keys even if the key group is still active.

To configure a GPIO Input to control an individual talk key, do the following:

- 1. Starting at the Service|Local GPIO menu, select GPIO Inputs.
- Press the SEL button.
 Opto 1 and Opto 2 appear in the panel display.
- 3. Using the arrow buttons, select **Opto 1** or **Opto 2**.
- **4.** Press the **SEL button**. *Function and Mode appear in the panel display.*
- 5. Using the arrow buttons, select **Function**.
- 6. Press the SEL button. Key Group, Not Assigned, and Talk Key appear in the panel display.
- 7. Using the arrow buttons, select **Talk Key**.
- 8. Press the SEL button. *Tap Key appears in the panel display.*
- **9.** Tap the **talk key** to be controlled by the GPIO Input. *The selected keypanel key red talk indicator LED appears.*

To configure a GPIO Input to control a Key Group, do the following:

- 1. Starting at the Service Local GPIO menu, select GPIO Inputs.
- Press the SEL button. Opto 1 and Opto 2 appear in the panel display.
- **3.** Using the arrow buttons, select **Opto 1** or **Opto 2**.
- **4.** Press the **SEL button**. *Function and Mode appear in the panel display.*
- 5. Using the arrow buttons, select Function.
- 6. Press the SEL button. *Key Group, Not Assigned, and Talk Key appear in the panel display.*
- 7. Using the arrow buttons, select **Key Group**.

- **8.** Press the **SEL button**. *Group 1, Group 2, Group 3, and Group 4 appear in the panel display.*
- 9. Using the arrow buttons, select the group to be controlled by the GPIO Input.
- Press the SEL button.Level and Edge appear in the panel display.
- 11. Using the arrow buttons, select Level or Edge.
- **12.** Press the **SEL button**. *An arrow appears next to the selected option.*

To setup a GPIO Input to track its corresponding GPIO Output, do the following:

- 1. Starting at the Service Local GPIO menu, select GPIO Inputs.
- Press the SEL button. Opto 1 and Opto 2 appear in the panel display.
- 3. Using the arrow buttons, select **Opto 1** or **Opto 2**.
- Press the SEL button. Function and Mode appear in the panel display.
- 5. Using the arrow buttons, select **Mode**.
- 6. Press the SEL button. Normal and Track Output appear in the panel display.
- 7. Using the arrow buttons, select **Track Output**.
- Press the SEL button.
 An arrow appears next to the selected option.

To configure local control of a GPIO Output, do the following:

- 1. Starting at the Service Local GPIO menu, select GPIO Outputs.
- Press the SEL button. Relay 1 and Relay 2 appear in the panel display.
- 3. Using the arrow buttons, select **Relay 1** or **Relay 2**.
- Press the SEL button. Not Assigned, Talk Key and UPG 1 through UPG 9 appear in the panel display.
- 5. Using the arrow buttons, select the **method** you want to control the GPIO Output. *If a UPG key is selected, configuration is finished.*
- 6. Press the SEL button. Tap Key appears in the panel display. If Talk Key is selected proceed to the next step.
- Tap the key to be used to trigger the GPIO Output. The selected keypanel key turns red.

Service Menu, Mirror (Control Package Only)

The **Mirror** menu provides a scroll list of keypanels which can be the target of a mirror operation. All KP-Series units can be a mirror target, a license is not required for targets.

NOTE: This menu option is not shown if the port has mirroring disabled. See "Keypanel Mirroring (Control Package Only)" on page 85.

To take control of a target keypanel, do the following:

- 1. On the keypanel, starting at the Service menu, select Mirror.
- 2. Press the SEL button.

A list of available target keypanels appear in the panel display.

IMPORTANT: Only panels that are locally scroll enabled are display in the available target keypanels list. If they are not in your scroll list, you cannot mirror them.

- 3. Using the arrow buttons, scroll to the target keypanel.
- **4.** Press the **SEL button**. *The Supervisor keypanel updates and displays the target keypanel's image.*

To exit Mirror mode on the keypanel, do the following:

- 1. On the keypanel, starting at the Service menu, select **Mirror**.
- Press the SEL button. The alpha of the target and Exit appear in the panel display.
- 3. Using the arrow buttons or Aux Volume shaft encoder, select Exit.
- **4.** Press the **SEL button**. *The mirroring target and supervisor icons disappear and keypanels go back to normal operation.*

Service Menu, OMNEO Setup

The **OMNEO Setup** menu option is used to configure the OMNEO device name, enable DHCP, address the OMNEO device for the keypanel and set up the static IP configuration, if DHCP is disabled.

IMPORTANT: If you change the device name on the keypanel, you must change how other devices are configured, so they can continue to make connection offers to this keypanel.

To enable DHCP from the keypanel, do the following:

1. Starting at the Service OMNEO Setup menu, select **OKP**.

NOTE: OKP refers to the OMNEO keypanel using the OMNEO connection; however, if an OEI-2 is also attached to the AIO port, you see both OKP and OEI-2 options for selection.

- 2. Press the SEL button. Device Name, DHCP, and IP Parameters appear in the panel display.
- **3.** Using the arrow buttons, select **DHCP**.
- Press the SEL button. Disabled and Enabled appear in the panel display.
- 5. Using the arrow buttons, select **Enabled**.
- 6. Press the SEL button.
- 7. Press the CLR button to exit the menu.

To configure the OKP's device name, do the following:

- 1. Starting at the Service OMNEO Setup menu, select OKP.
- 2. Press the SEL button. Device Name, DHCP, and IP Parameters appear in the panel display.

- Using the arrow buttons, select Device Name.
 The name of the OKP card appears in the panel display with the first character of its name blinking.
- 4. Using the up and down arrow buttons or the Aux shaft encoder, select a new character at the current position.
- 5. Using the left and right arrow buttons or the Main shaft encoder, move to the **next or previous character position**.
- 6. Press **SHIFT** to insert a character at the current position.
- 7. Press the SEL button.
 - OR

Press the AUX shaft encoder to move to the next character.

NOTE: Press BACK or press the MAIN shaft encoder to cancel editing. A confirmation is required.

- 8. Press FWD or move to the end of the name and Press the SEL button (or the AUX shaft encoder) to save changes.
- 9. Repeat steps 7 and 8 until you have modified the device name.
- 10. Press FWD.

The message Save Name? appears on the panel display.

11. Press the **SEL button**.

To configure the OKP IP parameters, do the following:

- 1. Starting at the Service OMNEO Setup menu, select **OKP**.
- 2. Press the SEL button. Device Name, DHCP, and IP Parameters appear in the panel display.
- 3. Using the arrow buttons, select **DHCP**.
- 4. Press the SEL button. Disabled and Enabled appear in the panel display.
- 5. Verify DHCP is **disabled**.
 - **NOTE:** When making changes to the OKP IP parameters, DHCP must be disabled before changing the name or IP Address. If DHCP is enabled, you can still view the IP Parameters, but you cannot make changes to them.
- 6. Press BACK.
- 7. Using the arrow buttons, select **IP Parameters**.
 - **NOTE:** SEL/FWD moves to the next octet, unless already on the last octet, in which case it save the current IP Address. CLR/ BACK moves to the previous octet, unless already on the first octet, in which case it cancels editing of the IP Address.
- 8. Press the SEL button. IP Address, Gateway, Netmask, Domain, and DNS Server appear in the panel display.
- **9.** Press the **SEL button**. *The IP Address appears with the first octet blinking in the panel display.*
- 10. Using the number pad, enter the first octet number in the IP Address.
- Press the SEL button. The focus shifts to the second octet.
- 12. Using the number pad, enter the second octet number in the IP Address.
- Press the SEL button.
 The focus shifts to the third octet.
- 14. Using the number pad, enter the third octet number in the IP Address.
- **15.** Press the **SEL button**. *The focus shifts to the last octet.*
- **16.** Using the number pad, enter the **last octet number** in the IP Address.
- **17.** Press the **SEL button**.

The OKP Setup menu options appear in the panel display.

To configure the Gateway Address, do the following:

- 1. Using the arrow buttons, select **Gateway**.
- 2. Press the SEL button. The Gateway Address appears with the first octet blinking in the panel display.
- 3. Using the number pad, enter the first octet number in the Gateway Address.
- Press the SEL button. The focus shifts to the second octet.
- 5. Using the number pad, enter the second octet number in the Gateway Address.
- 6. Press the SEL button. *The focus shifts to the third octet.*
- 7. Using the number pad, enter the third octet number in the Gateway Address.
- Press the SEL button. The focus shifts to the last octet.
- 9. Using the number pad, enter the last octet number in the Gateway Address.
- 10. Press the SEL button. The OKP Setup menu options appear in the panel display.

To configure the Netmask Address, do the following:

- 1. Using the arrow buttons, select Netmask.
- 2. Press the SEL button. The Netmask Address appears with the first octet blinking in the panel display.
- 3. Using the number pad, enter the first octet number in the Netmask Address.
- 4. Press the SEL button. The focus shifts to the second octet.
- 5. Using the number pad, enter the second octet number in the Netmask Address.
- 6. Press the SEL button. *The focus shifts to the third octet.*
- 7. Using the number pad, enter the third octet number in the Netmask Address.
- Press the SEL button. The focus shifts to the last octet.
- 9. Using the number pad, enter the last octet number in the Netmask Address.
- 10. Press the SEL button. The OKP Setup menu options appear in the panel display.

To configure the Domain name, do the following:

- 1. Using the arrow buttons, select **Domain**.
- 2. Press the SEL button.

The domain name appears with the first character blinking in the panel display.

- 3. Using the up and down arrow buttons or the Aux shaft encoder, select a new character at the current position.
- 4. Using the left and right arrow buttons or the Main shaft encoder, move to the **next or previous character position**.
- 5. Press SHIFT to insert a character at the current position.
- 6. Press the SEL button OR

Press the AUX shaft encoder to move to the next character.

NOTE: Press BACK or press the MAIN shaft encoder to cancel editing. A confirmation is required.

- 7. Press FWD or move to the end of the name and Press the SEL button (or the AUX shaft encoder) to save changes.
- 8. Repeat steps 3 to 7 until the domain is named.
- 9. Once finished, press the FWD button. *Save Name? appears in the panel display.*
- **10.** Press the **SEL button**.

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To configure DNS Server, do the following:

- 1. Using the arrow buttons, select **DNS Server**.
- Press the SEL button. The DNS 1 Server Address appears with the first octet blinking in the panel display.
- 3. Using the number pad, enter the **first octet number** in the DNS Address.
- 4. Press the SEL button. The focus shifts to the second octet.
- 5. Using the number pad, enter the second octet number in the DNS Address.
- 6. Press the SEL button. *The focus shifts to the third octet.*
- 7. Using the number pad, enter the **third octet number** in the DNS Address.
- Press the SEL button. The focus shifts to the last octet.
- 9. Using the number pad, enter the last octet number in the DNS Address.
- 10. Press the SEL button. The OKP Setup menu options appear in the panel display.

Service Menu, Page Change

Page Change is used to select whether you are allowed to change setup pages while talk keys are active. By default, in Standard Intercom Mode, page changes are allowed when talk keys are active. However, the default in Alternate Intercom Mode does not allow page changes to occur when talk keys are active.

Available options:

AutoThe default is followed depending on the Intercom Mode: Standard or Alternate.

Always AllowPage changes are allowed while Talk Keys are active.

*No Talk Keys*Page changes are not allowed while Talk Keys are active. A red bar appears above/below the keys signifying page changes are not allowed. If the talk key is turned off, the red bar turns blue and page changes can be done.

To configure page change operation, do the following:

- 1. Starting at the Service Page Change menu, select Page Change.
- 2. Press the SEL button. *Auto, Always Allow, and No Talk Keys appear.*
- 3. Using the arrow buttons, select the page change option you desire.
- 4. Press the **SEL button**.

An arrow appears next to the selected option.

Service Menu, Reset Cfg

Reset Cfg restores almost all custom settings to the defaults and erases all stored autodial numbers. Reset Cfg does not change the selected alpha size, intercom mode, poll ID, headset transfer state, or reset the IP configuration.

To reset the keypanel configuration, do the following:

- 1. Starting at the Service Reset Cfg menu, select Do Reset.
- 2. Press the SEL button. Configuration Reset appears in the panel display.

Service Menu, Scrn Saver

Scrn Saver allows the user to configure the way the screen saver feature operates.

Available selections for this menu are:

ActivateAllows the user to activate the screen saver immediately (used to test current display settings).

*Delay*Allows the user to set the delay for Display Dim (for example, when the display will dim) and to set the delay for Activation (for example, when the screen saver becomes active). Both features can be set from 30 minutes, up to 12 hours, or disabled.

*Display Dim*Allows the user to set the brightness of the panel display from 0-100%. This setting is a percentage of the current LCD brightness. For example, if you configured your backlight for 60%, then in this menu, 100% is equal to 60% and 0% is equal to 35%.

ModeCan be set to Bitmap, Display Off (sleep mode), or Text.

The default setting for this option is:

Delay One (1) hour for both display dim and screen-saver activation Display Dim25% ModeText

NOTE: Activating any lever key, keypad button, or shaft encoder deactivates the screen-saver, as will an incoming call.

To manually activate the screen saver, do the following:

- 1. Starting at the Service|Scrn Saver menu, select Activate.
- Press the SEL button. The screen saver is activated on the keypanel panel display.

To set the delay option for the keypanel screen saver, do the following:

- 1. Starting at the Service Scrn Saver menu, select Delay.
- Press the SEL button. Display Dim and Activation appear in panel display.
- 3. Using the left and right arrow buttons, select **Display Dim**.
- Press the SEL button. The Delay Time: scroll box appears in the panel display.
- 5. Using the arrow buttons, select the **amount of time** you want to expire before the display dims.
- 6. Press BACK. Display Dim and Activation appear in panel display.
- 7. Using the left and right arrow buttons, select Activation.
- Press the SEL button. *The Delay Time: scroll box appears in the panel display.*
- 9. Using the arrow buttons, select the amount of time you want to expire before the screen saver becomes active.

To set the brightness of the display, do the following:

1. Starting at the Service Scrn Saver menu, select Display Dim.

- 2. Press the SEL button.
 - The Brightness scroll box appears in the panel display.
- 3. Using the up and down arrow buttons, scroll to the display brightness you desire.

To set the screen saver mode (type), do the following:

- 1. Starting at the Service Scrn Saver menu, select **Mode**.
- 2. Press the SEL button. *Bitmap, Display Off and Text appear in the panel display.*
- 3. Using the arrow buttons, select **Bitmap** to have a bitmap image display when the screen saver activates.
 - OR Using the arrow buttons, select **Display Off** to put the display into sleep mode when the screen saver activates. OR

Using the arrow buttons, select **Text** to have a text message display when the screen saver activates.

- **4.** Press the **SEL button**. If Bitmap or Text is selected, the options Bounce or Scroll appear.
- Using the arrow buttons, select Bounce to have the bitmap or text bounce across the display. OR

Using the arrow buttons, select Scroll to have the bitmap or text scroll across the display.

Service Menu, Set Address

Set Address is used to indicate the poll ID of the keypanel. See "DKP-4016/4016W Addressing" on page 25 to determine if you need to set the keypanel address. The poll ID is the number (or address) at which an AIO card or intercom attempts to communicate with the keypanel. The Poll ID number is directly related to the connection port on the breakout panel.

Available options for the Poll ID are 1-8.

To set the address, do the following:

- 1. Starting at the Service|Set Address menu, select the **poll ID** for the keypanel.
- 2. Press the SEL button. Cancel or Save and Restart appear in the panel display.
- 3. Using the arrow buttons, scroll to Save and Restart.
- 4. Press the SEL button. Restarting.... appears. The keypanel resets. Once the restart is complete, the Poll ID is enabled.

Service Menu, Snoop Tally

Snoop Tally, when enabled, indicates to keypanel users somebody is listening to them. For example, snoop tallies are displayed on keypanel 1, if there is another keypanel (2) which is listening to keypanel 1 via a point-to-point or a special list, but is not talking to keypanel 1. Snoop tallies are suppressed if keypanel 1 has any talk keys turned on, or if the hot mic is not enabled.

From this menu, you can set the type of chime indication you want and the duration of the tally.

Available Tally durations available are: One-shot and 1 second to 5 minutes.

NOTE: Hot Mic must be activated on the keypanel for snoop tally to work. For more information, see "Audio Options Menu, Matrix Out" on page 192.

By default, snoop tally is *disabled* (no chime).

To enable snoop tallies on the keypanel, do the following:

- 1. Starting at the Service menu, select **Snoop Tally**.
- Press the SEL button. The Chime scroll box and the Duration scroll appear in the panel display.
- 3. Using the up and down arrow buttons, select the type of chime you desire.
- 4. Using the left and right arrow buttons, select **Duration**.
- 5. Using the up and down arrow buttons, select the **duration** of the tally.

Service Menu, Test Panel

Test Panel allows the user to check the operation of all keys and displays on the keypanel.

TABLE 10. Test Panel Key Descriptions

Display	Action
X X X X	All alpha numeric displays show a % symbol when in Test Panel mode.
ок	Press down on any key.
* * * *	Press up on any key.
>>>	Press to the right on any key (excluding the MIC MUTE/MIC SEL and CLR/CWW).
<<<	Press to the left on any key (excluding the MIC MUTE/MIC SEL. and CLR/CWW).
<aux></aux>	Single tap the Aux Volume encoder knob.
<-AUX>	Rotate the Aux Volume encoder knob counterclockwise.
<+AUX>	Rotate the Aux Volume encoder knob clockwise.
<aux-dbl></aux-dbl>	Double tap the Aux Volume encoder knob.
<aux-held></aux-held>	Press and hold the Aux Volume encoder knob.
<main></main>	Single tap the Main Volume encoder knob.
<-MAIN>	Rotate the Main Volume encoder knob counterclockwise.
<+MAIN>	Rotate the Main Volume encoder knob clockwise.
<main-dbl></main-dbl>	Double tap the Main Volume encoder knob.
<main-held></main-held>	Press and hold the Main Volume encoder knob.
<-MIC>	Press left on the MIC MUTE/MIC SEL. key.
<+MIC>	Press right on the MIC MUTE/MIC SEL. key.
<mute></mute>	Press up on the MIC MUTE/MIC SEL. key.
<mic></mic>	Press down on the MIC MUTE/MIC SEL. key.
<-CWW>	Press left on the CLR/CWW key.
<+CWW>	Press right on the CLR/CWW key.
<clr></clr>	Press up on the CLR/CWW key.
<cww></cww>	Press down on the CLR/CWW key.
<menu></menu>	Press the MENU button.
<fwd></fwd>	Press the FWD button.
<back></back>	Press the BACK button.
<upg3></upg3>	Press the UPG3 button.
<upg4></upg4>	Press the UPG4 button.

To enable the test panel, do the following:

- On the keypanel keypad, press MENU. The Information menu appears in the panel display.
- 2. Using the arrow buttons, select **Service**.
- **3.** Press the **SEL button**. *The Service submenu appears in the panel display.*
- 4. Using the arrow buttons, select **Test Panel**.
- **5.** Press the **SEL button**. *The Test Panel display appears.*
- 6. Using Table 10 on page 238, test the keypanel keys.
- 7. Press the CLR button to exit Test Panel.

Telephone Interface (TIF) Operation

CHAPTER 6

NOTE: Telephone operation requires an optional **TIF** (Telephone Interface). You must assign an intercom key to talk/listen to the TIF. We recommend a talk + auto follow assignment. See the TIF User Manual (PN F01U193285) for specific TIF configuration options.

Receiving A Phone Call

When there is an incoming telephone call, the TIF alpha begins to tally.

To receive a phone call, do the following:

- > Press the **key** to answer the call.
 - **NOTE:** TIF assignments tally when the phone is ringing. By default, the assignments also tally while the phone is off-hook. This operation can be disabled by selecting the *Don't generate tallies for off-hook TIF assignments* check box in AZedit (Options|Intercom Configuration|Options page) or by editing the Enhanced Tally definitions for the TIF Off-hook and TIF ringing tally types.

Dialing and Hanging Up

NOTE: Auto Dial only appears in the TIF menu options when auto dial numbers are configured.

Manual Dial

NOTE: You can enter manual dial mode by pressing SHIFT+DIAL and then tapping the TIF assignment.

To **manually dial**, do the following:

- 1. On the keypanel, lift the **TIF key** up to turn listen on.
- 2. Press the **TIF key** down to turn the Talk key on. *Auto Dial, Hang Up, Manual Dial, and Redial appear in the panel display.*

NOTE: This only happens if the assignment port is marked as Port is TIF in AZedit.

- 3. Using the arrow buttons, select Manual Dial.
- **4.** Press the **SEL button**. *Dial: appears in the panel display.*
- 5. Using the keypad, dial the **number** you want to call.
- 6. Press the SEL button. *The call is placed.*

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Keypanel Hang Up

NOTE: You can also hang up a TIF by pressing SHIFT+DROP, and then tapping the TIF assignment.

To hang up the telephone, do the following:

- On the keypanel, press the TIF key down to turn it on. Auto Dial, Hang Up, Manual Dial, and Redial appear in the panel display.
- 2. Using the arrow buttons, select Hang Up.
- **3.** Press the **SEL button**. *The call is disconnected.*

To program a keypanel UPG key to activate the TIF key, do the following:

- 1. Press the SHIFT + DIAL keys.
- 2. Press and hold the desired **UPG button** to which you want to program the TIF activation. *The message Menu position saved appears and the TIF activation is assigned to the key.*

To redial a phone number, do the following:

- 1. On the keypanel, press the **TIF listen key** on.
- On the keypanel, press the TIF talk key on. Auto Dial, Hang Up, Manual Dial, and Redial appear in the panel display.
- 3. Using the arrow buttons, select Redial.
- **4.** Press the **SEL button**. *The last dialed number is connected. The TIF key alpha flashes and Hang Up appears in the panel display.*
- Press the SEL button to disconnect the call. *The call is ended.*

To program a keypanel UPG key to hang up the TIF key, do the following:

- 1. Press the SHIFT + DIAL keys.
- 2. Press and hold the desired **UPG button** to which you want to program Hang Up. *The message Menu position saved appears and the TIF activation is assigned to the key.*

Auto Dial

To autodial a phone number, do the following:

- 1. On the keypanel, press the **TIF listen key** on.
- On the keypanel, press the TIF talk key on. Auto Dial, Hang Up, Manual Dial, and Redial appear in the panel display.
- 3. Using the arrow buttons, select Auto Dial.
- **4.** Press the **SEL button**. *The Auto Dial numbers appear in the panel display.*
- 5. Using the arrow buttons, select the Auto Dial number you want to call.
- 6. Press the SEL button. The call is placed. The TIF key alpha flashes and Hang Up appears in the panel display.

Centralized Auto Dials

The **Centralized Auto Dials** allows up to 999 phone numbers to be stored in the intercom as a scrollable list from the keypanels. Auto dials are telephone numbers frequently dialed and are maintained using the AZedit Intercom Configuration Software. Customizing auto dial numbers in AZedit is as easy as entering the telephone number and selecting whether or not it is scroll enabled.

The following firmware versions must be loaded to utilize centralized auto dials in your intercom system:

- AZedit Intercom Software V3.6.1 or later
- MCII-e V2.0.4 or later
- PeriphII-e (Ethernet) V1.20.0 or later
- Periph Controller (Standard) V10.20.0 or later
- DBX V1.20.0 or later
- Cronus Firmware V1.5 or later
- Zeus II Firmware V3.4.0 or later
- Zeus III Firmware V1.0.0 or later
- DKP-4016 Firmware V1.1.0 or later

Centralized Auto Dial

The **Centralized Auto Dial** can be used two (2) different ways, with TIF assignments or with keypad sequences. You can also configure locally stored auto dial numbers on the keypanel. For more information, see "Key Options Menu, Auto Dial" on page 209.

To access the Auto Dials window, do the following:

From the System menu in AZedit, select Auto Dial. The Auto Dials window appears.

	📴 AZedit (:Adam Single Frame) - [ONLINE] - Auto Dials							
Eil	Eile Online Authentication Edit View System Alphas Status Options Logging Help							
	D 🖆 🕆 🖶 🎒 🖋 🖻 🖉 🥒 🗶 🗠 🖉 🥒 🐘 🛍 🔍 🍑 - F -							
	🗒 🖬 🗟 🚭	2 🌣 🙂	a 💛 🛛	a) 🔽 💼 📯 🛠 😫	🔁 🖬 F+ F-			
	Auto Dial	Alpha	LC	Phone Number				
	001	AD01	LC					
	002	AD02	LC					
	003	AD03	LC					
	004	AD04	LC					
	005	AD05	LC					
	006	AD06	LC					
	007	AD07	LC					
	008	AD08	LC					
	009	AD09	LC					
	010	AD10	LC					

To add a telephone number to the Auto Dial database, do the following:

- From the System menu in AZedit, select Auto Dial. The Auto Dial window appears.
- 2. From the Auto Dial column, double-click an **auto dial number**. *The Edit Auto Dial window appears*.

Edit Auto Dial		? ×
Auto Dial Number: 004 Alpha: AD04	Scroll Enable <u>L</u> ocal <u>I</u> runk <u>A</u> Zedit	Next Prev Done
Phone Number 918778634169		Cancel

- 3. From the Scroll Enable group box, select the scroll enable check boxes you want to configure for the auto dial number.
- 4. In the Phone Number field, enter the telephone number you want to have for that auto dial sequence.

NOTE: Entering *99 creates a pause in dialing. This is used to dial extensions or select preset options.

5. Click Next to enter another number. *The next blank Edit Auto Dials window appears*. OR Click Done to close the Edit Auto Dial window. *The Auto Dials window appears with the new number in the list*.

To add a description to the telephone number you added to the Auto Dial database, do the following:

- 1. From the Alphas menu in AZedit, select **Auto Dial**. *The Auto Dial Alphas window appears*.
- 2. Double-click the **AD resource number** to which you want to add the description. *The Edit Alpha/Description window appears*.

Edit Alpha / Desc	Edit Alpha / Description				
Resource:	Auto Dial - 001	Ne <u>x</u> t			
D <u>e</u> scription:	Studio 1A NYC	Prev			
Alpha (4):	AD01	Done			
Alpha (6):	1ANY AD01				
Alpha (8):	1ANY AD01	Cancel			

- 3. In the Description field, enter a unique description for the auto dial number. For example, Studio 1A NYC.
- 4. In the Alpha 4, Alpha 6, or Alpha 8 field, enter a recognizable 4-, 6- or 8-character Alpha. For example, 1ANY.

5. Click **Done** when you are finished. OR

Click Next to enter another Alpha Description.

	📴 AZedit - [ONLINE] - Auto Dials						
Eile	e O <u>n</u> line A <u>u</u> thenticati	on <u>E</u> dit <u>V</u> iew <u>S</u>	<u>S</u> ystem <u>A</u> lph	as S <u>t</u> atus <u>O</u> ptions <u>L</u> ogging <u>H</u> elp			
	D 🖻 🕆 🖥 🖨	🖉 暗 🖉 🧖	× ≌ 9	🗠 🥒 🐰 🖻 💼 🔍 🎉 - F - 🔹			
,							
	Auto Dial 🛆	Alpha	LC	Phone Number			
	001	AD01	LC				
	002	AD02	LC	3910			
	003	AD03	LC	3911			
	004	AD04	LC	93175551212			
	005	AD05	LC				
	006	AD06	LC				
	007	AD07	LC				
	008	AD08	LC				
	009	AD09	LC				
	010	AD10	LC				

- 6. From the Online menu in AZedit, select Send Changes. *The Send Changes window appears*.
- 7. Click OK.

The changes are sent to the intercom and the telephone number is added to the intercom system auto dial table.

To use centralized auto dial numbers, do the following:

- On the keypanel, press the TIF assignment key. Hang Up, Icom ADial, Manual Dial, and Redial appear in the panel display.
- 2. Using the arrow buttons, scroll to Icom ADial.
- **3.** Press the **SEL button**. *You enter the centralized auto dial list. A scrollable list of available Auto Dial numbers appear in the panel display.*
- 4. Using the arrow buttons, scroll to the desired **auto dial number**.
- 5. Press the SEL button. *The number connects.*

To use centralized auto dial numbers with keypanel keypad sequences, do the following:

- 1. Press the SHIFT + DIAL keys. Tap Key appears in the panel display.
- 2. Press the **TIF assignment key**. *A dial tone is heard*.
- **3.** Using the keypad, enter **#NNN** (where NNN is the Auto Dial number assignment in AZedit). *The number is dialed.*

APPENDIX A Keypad Quick Reference

Keypad Sequence Introduction

Keypad sequences are a series of keypad strokes made on the keypanel, which in turn displays specific information (such as keypanel ID, talk level 2 assignments, etc.). Keypanel sequences are shortcuts via the keypanel keypad.

As with other keypanels, the DKP-4016/4016W allows you to lock the entire menu or only the service menu. This is implemented through AZedit (System|Miscellaneous|Keypanel Menu Password). For more information, see the AZedit user manual (p/n F01U239453).

Keypad Sequences



Keypad	Description			
MENU	Open the main menu			
FWD	Move one (1) selection forward through highlighted menu option			
BACK	Move one (1) selection backwards through highlighted menu option			
LOC	Display a list of available intercoms available to scroll from			
Arrow Up	Scroll upward through scroll list or available key assignments one at a time			
Arrow Left	Move backwards through menu options or available key assignments one at a time			
MENU (middle of the keypad)	Open the main menu			
Arrow Right	Move forward through menu options or available key assignments one at a time			
СОРҮ	Copy incoming call key assignment from the CWW			
Down Arrow	Scroll downward through scroll list or available key assignments one at a time			
PAGE	Access setup pages			
CLR	Clear the CWW (Acts as a BACK button in menu mode, or by holding it down, exits the menu structure.)			
SHIFT	Access secondary keypad actions			
SEL	Select options highlighted in a menu			
SHIFT+LOC	Displays the keypanel assignment types			
SHIFT+4	Move backwards through menu options or available key assignments a page at a time			
SHIFT+INFO	Open the INFO menu			
SHIFT+6 Move forward through menu options or available key assignments a pa				
SHIFT+DROP, <key></key>	Hang up TIF on key			
SHIFT+DIAL, <key></key>	Enter dial mode on TIF on key			

7, <key></key>	Copy the CWW to a key
0,0,0,8,1	Show panel ID

Keypad Sequences				
0,0,0,8,2	Show talk level 2 assignments			
0,0,0,8,3	Show listen assignments			
0,0,0,8,7	Enable tone			
0,0,0,8,0	Enter test mode			
0,0,3,1,SEL, <listen key=""></listen>	Program a listen key with an AL assignment			
0,0,3,2,SEL, <listen key=""></listen>	Program a listen key with an AF assignment			
0,0,3,3,SEL, <listen key=""></listen>	Program a listen key with an AM assignment			
0,0,3,4,SEL, <listen key=""></listen>	Program a listen key with an AR assignment			
0,0,3,7,SEL, <listen key=""></listen>	Program a listen key with an AT assignment			
0,0,3,5,SEL, <talk key=""></talk>	Program a talk key with an AC assignment			
0,0,0,8,8	Show setup pages			
0,7, <key>,<key> or 7, SEL, <key>, <key></key></key></key></key>	Copy the first key to the second key			
9, <page>, SEL <key></key></page>	Select setup page for row of keys			
2 (up) or 4 (left)	Enter scroll list mode, scroll up/left			
8 (down) or 6 (right)	Enter scroll list mode, scroll down/right			

The following sequences also require the assignments are marked as Local scroll enable in AZedit:

NOTE: IFB, ISO, RY, and IFSL are not locally scrollable, by default.

0,0,1, <port>,SEL,<key></key></port>	Program a key with a port assignment	
0,0,2, <pl num="">, SEL,<key></key></pl>	Program a key with a PL assignment	
0,0,0,1, <sl num="">,SEL,<key></key></sl>	Program a key with a SL assignment	
0,0,0,2, <ifb num="">,SEL,<key></key></ifb>	Program a key with an IFB assignment	
0,0,0,3, <iso num="">,SEL, <key></key></iso>	Program a key with an ISO assignment	
0,0,0,4, <ry num="">,SEL,<key></key></ry>	Program a key with an RY assignment	
0,0,0,5,2 <ifb num="" sl="">,SEL,<key></key></ifb>	Program a key with an IFB SL assignment	

снартег в Keypanel Menu Quick Reference

udio Op	tions			
dvanced				
AEC				
	Mic Priority			
		Front Mic (default)		
		Rear Mic		
AGC				
	Attack			
		Front Mic	Fast Attack Speed	0.5ms
		Left Hdst		lms (default)
		Rear Mic		2ms
		Right Hdst		
	Decay			
		Front Mic	Decay	500ms (default)
		Left Hdst		750ms
		Rear Mic		1000ms
		Right Hdst		
Compress				
	Front Mic	Compression Ratio:	1:1	
	Left Hdst		2:1	
	Rear Mic		3:1(default)	
	Right Hdst		4:1 (only available wi	
			5:1 (only available wi 6:1 (only available wi	
Filters			0.1 (only available wi	un Audro i ackage)
	Bandpass			
	1	Inputs		
		Aux 1		
		OMNEO 1		
		OMNEO 2		
		OMNEO 3	-8 (only available with a	Audio Package)

	Frequencies		
		Low Freq	0 Hz (default)
		-	15.6Hz
			31.5Hz
			50Hz
		High Freq	22kHz (default)
			16kHz
			8KHz
			4KHz
	Mode		TIXIIZ
		Disabled (default)	
		Enabled (default)	
		Lilabled	
Outputs			
Left Hdst	Both		
Right Hdst	Left Chan		
	Right Chan		
	Frequencies		
		Low Freq	
			0 Hz (default)
			15.6Hz
			31.5Hz
			50Hz
		High Freq	
		8 -1	22kHz (default)
			16kHz
			8KHz
	Mode		4KHz
	Widde		
		Disabled (default)	
	-	Enabled	
Matrix Out			
OMNEO 1			
OMNEO 2		<u>.</u>	
	-8 (only available wi	th Audio Package)	
Preamp Ou			
	Frequencies		
		Low Freq	
			0 Hz (default)
			15.6Hz
			31.5Hz
			50Hz
		High Freq	
			22kHz (default)
			16kHz
			8KHz
	Mada		4KHz
	Mode		
		Disabled (default)	
		Enabled	

	Equalization	1			
	_	Inputs			
			Front Mic	Modes	Disabled (default)
			Left Hdst		Enabled
			Matrix	Presets	Default (default)
			Rear Mic		Hiss Reduction
			Right Hdst		Rumble Reduction
			e		Noise Reduction
		Outputs			
			Front Spkr	Modes	Disabled (default)
			Rear Spkr		Enabled
				Presets	Default (default)
					Hiss Reduction
					Rumble Reduction
					Noise Reduction
	Notch				
		Notch Filte			
			Disabled (defa	ult)	
			Narrow		
			Default		
			Wide		
Gating					
	Aux I				
	Front Mic				
	Left Hdst				
	Matrix In				
	OMNEO 1				
	OMNEO 2				
		8 (only availa	able with Audio I	Package)	
	Rear Mic				
	Right Hdst				
	rught mast		Threshold		
				Disabled (default)	
				-17dB – 18dB	
Metering					
	Aux I				
	Front Mic				
	Left Hdst				
	Matrix In				
	None (defau	1 (t)			
	OMNEO 1	<i>iii)</i>			
	OMNEO 2	9 (1.1		
		o (only availa	able with Audio I	rackage)	
	Rear Mic				
	Right Hdst				

254 Keypanel Menu Quick Reference

	Left Hdst	Both	Aux 1
	Right Hdst	Left Chan	Front Mic
	8	Right Chan	
		8	OMNEO 1
			OMNEO 2
			OMNEO 3-8 (only available with Audio Package)
			Rear Mic
	Front Spkr	Aux 1	Right Hdst
	OMNEO 1	Front Mic	
	OMNEO 2	Left Hdst	
	Rear Spkr	Matrix In	
	кеа эркі	OMNEO 1	
		OMNEO 2	
			8 (only available with Audio Package)
		Rear Mic	
		Right Hdst	
	Preamp Out		
	To Matrix	Matrix In	
		OMNEO 1	
		OMNEO 2	
		OMNEO 3-	8 (only available with Audio Package)
Mix Mod	e		
	Aux Mixes S	Switched (def	ault)
	Mixes Alwa		· · ·
Noise Gat		, 	
	Front Mic	Disabled (de	efault)
	Left Hdst	Enabled	crault)
		Ellabled	
	Rear Mic		
	Right Hdst		
ne			
Preview			
	Yes (default)	
	No		
Chime			
Cinine	System #1-1	7	
	User $\#1-4$ (d	only available	with Audio Package)
Volume			
-	-20dB (defa		
	<mark>-60dB – 10d</mark>	В	
l			
Headset			
	Left	Dim	0dB (default)
	Right	Amount:	-32dB - 0dB
	0		
Speaker			
Speaker	Front	Dim	LXdB (default)
Speaker	Front	Dim	-8dB (default)
Speaker	Front Rear	Dim Amount:	-48 dB - 0 dB
Speaker ged Vols	Rear		-48 dB - 0 dB
ged Vols	Rear		-48 dB - 0 dB

Left	Auto-Mute	Disabled			
		Enabled (default)			
	Mode	Disabled			
	111040	Enabled			
	Switched (default)				
	Туре	Auto-Detect (default)			
		Dynamic			
		Electret			
Right	Auto-Mute	Disabled			
c		Enabled (default)			
	Mode	Disabled			
	111040	Enabled			
		Switched (default)			
	Туре	Auto-Detect (default)			
		Dynamic			
		Electret			
idset Spkr					
Left	Auto-	Disabled			
	Transfer	Enabled (default)			
	Mode	Both, Always On (default)			
	widde	Left Chan Disabled			
		Right Chan Switched			
Right	Auto-	Disabled			
-	Transfer	Enabled (default)			
	Mode	Both, Always On (default)			
	widde				
		Left Chan Disabled			
		Right Chan Switched			
Volume Co	ontrol				
	Ganged				
	Individual (d	lefault)			
uts					
Aux 1	Disabled				
	Disabled				
Aux 1	Disabled Enabled (det	fault)			
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Aux 1	Enabled (det				
Aux 1	Enabled (det				
Aux 1 Matrix In	Enabled (det Disabled Enabled (det				
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Jo Reset Volumes Keset Matrix Out Hot Mic Normal (default) Max Volume: -48dB - 10dB (default), Mute Fleadset Left Max Volume: -48dB - 10dB (default), Mute Speaker Front Mic Rear Rear Adjust Disabled (default) Front Mic Left Hast Rear Mic Rear Mic Right Hdst OdB (default) Rear Mic Adjust Mire Gain: Left Hast Rear Mic Rear Mic Right Hdst - 20dB - 10dB Momentary - 20dB - 10dB Momentary - 20dB - 10dB Mire Mute	Reset		
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Speaker Front Rear Mic Gain			
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Speaker Front Rear Mute, -48dB – 10dB Aux 1 Matrix In OMNEO 1 OMNEO 2 OMNEO 3-8 (only available with Audio		Right	
Rear Aux 1 Matrix In OMNEO 1 OMNEO 2 OMNEO 3-8 (only available with Audio	Speaker	Front	
Matrix In OMNEO 1 OMNEO 2 OMNEO 3-8 (only available with Audio		Rear	
OMNEO 1 OMNEO 2 OMNEO 3-8 (only available with Audio			
OMNEO 2 OMNEO 3-8 (only available with Audio			
OMNEO 3-8 (only available with Audio			
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rackage)		1th Audio	
	Package)		

Output Level	
Output	8dB (default) – 0dB
Level:	
Panel Mic	
Front	Disabled
	Enabled
	Switched (default)
Rear	Disabled (default)
	Enabled
	Switched
Preamp Out	
Disabled	
Hot Mic	
Invert	
Switched (a	lefault)
Sidetone	
Level	
	Sidetone Level: -20dB (default), -65dB to 0dB
Mode	Shetche Eevel. 200B (delaal), 05dB to 0dB
widde	Always On
	Disabled
	Switched (default)
Speaker	Switched (default)
Front	Always On
i ioni	Disabled
	Switched (default)
Deen	
Rear	Always On Dischlad (default)
	Disabled (default)
Volume	Switched Ganged
Control	Individual (default)
Tone Gen	
Frequency	IKHz Tone
	500Hz Tone (default)
Tone Off (d	lefault)
Tone On	

VM Options	
Playback	
	Isolate
	Mix (default)
Recording	
	Auto Recording
	Disabled (default)
	Rolling Buffer
	When Mailbox Full
	Delete Oldest
	Reject New (default)

Display Menu	
Assign Type	
	Shows key's assignment types
Auto Dial	
	Shows keys with 1-Touch Auto Dial assigned
Chans On	
	Shows scroll list of current callers
Chime	
	Shows keys with Chime assigned
Exclusive	
	Shows which keys are Exclusive keys
Key Groups	
	Group 1 - shows which key is Master, and which keys are Group Slaves
	Group 2 - shows which key is Master, and which keys are Group Slaves
	Group 3 - shows which key is Master, and which keys are Group Slaves
	Group 4 - shows which key is Master, and which keys are Group Slaves
Key List	
	Shows scroll list of hidden key assignments assigned to virtual keys
Level 2	
	Level 2 Assignments - Shows the talk level 2 assignment for each key assignment
Listen	
	Listen Assignments - Shows the listen assignment for each key assignment
MAC Address	
	MAC Address - shows the keypanel MAC Address
Matrix	
	Key Assignment Matrices - Shows the matrix for each key assignment
Panel ID	
	<panel id=""> - Shows the port number and alpha for this keypanel</panel>
Solo Key	
	Solo Keys - Shows which key is the solo key
Version	
	Version X.X.X - shows the keypanel firmware version

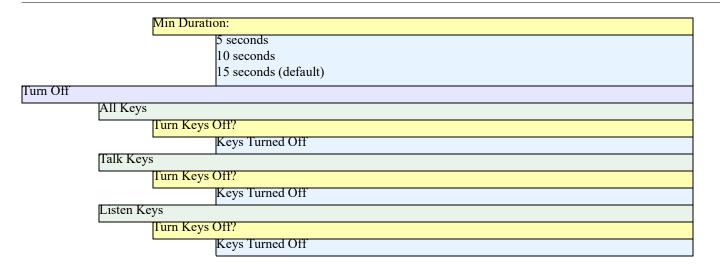
Key Assign Menu

Matrix (only displays if there	<ports assignments=""></ports>	Listen	Tap Key
are remote matrices. Selecting		Talk Lvl1	1 2
Matrix displays a list of remote		Talk Lvl2	
intercoms.)		Talk+AF	
Pt-to-Pt		Talk+AL	
Party Line		Talk+AM	
IFB	•	Talk+AR	
Special List	-	Talk+AT	
Sys Relay	-		
Camera ISO	-		
UPL Resource	-		
IFB Spcl List	-		
Auto Funcs	All Call	Тар Кеу	
	Auto Follow		
	Auto Listen		
	Auto Mute		
	Auto Recip		
	Auto Table		
	DIM		

Key Options Menu

Auto Dial		
_ 101	Numbers	
	#01 - #100	
	I-Touch	
	[Tap Key	
Chime	Tap Key	
	Chima	
	Chime	
	<none></none>	
	System #1	
	System #2 System #3	
	System #4	
	System #4 System #5	
	System #6	
	System #7	
	System #8	
	System #9	
	System #10	
	System #10	
	System #12	
	User #1 (only available with Audio Package)	
	User #2 (only available with Audio Package)	
	User #3 (only available with Audio Package)	
	User #4 (only available with Audio Package)	
	Duration	
	One-shot (default)	
	1 second	
	2 seconds	
	3 seconds	
	4 seconds	
	5 seconds	
	10 seconds	
	15 seconds	
	20 seconds	
	30 seconds	
	60 seconds	
	90 seconds	
	2 minutes	
	3 minutes	
	4 minutes	
	5 minutes	
Clear		
	Гар Кеу	
xclusive		
	Гар Кеу	
cons		
	lcon	
	Key has TIF Asgn	
	Key is Solo Key	
	Key is Exclusive Key	
	Key has Auto-Dial	
	Key is Group Master	
	Key has Chime	
	Key has Irunk Ason	
	Key has Trunk Asgn	
	Display	

Key Groups					
	Group 1	Tap Master	Tap Slave	e Key	
	Group 2	Key			
	Group 3				
	Group 4				
Latching		•			
_	Global				
		Disabled			
			C IX		
		Enabled (d	efault)		
	Per Key				
		Тар Кеу			
Lock					
	Тар Кеу				
Danal Swan	rup neg				
Panel Swap					
	Control				
		GPI Inputs			
			Opto 1		
			Opto 2		
				Cycle To	
				•	Next
					Previous
				Switch To	MAIN
				Switch 10	EKP 1 - EKP 7
				Togglo To	EKP 1 - EKP 7
				Toggle To	
				Unassigned (default)	
		GPI Outpu	ts		
			Relay 1		
			Relay 2		
				Cycle To	
				-	Next
					Previous
				Switch To	MAIN
					EKP 1 - EKP 7
				Toggle To	EKP 1 - EKP 7 EKP 1 - EKP 7
				Unassigned (default)	
		Keypad			
			BACK		
			FWD		
			UPG 1 -	UPG9	
			0101-	Cycle To	
				Cycle 10	Next
					Previous
				Switch To	MAIN
					EKP 1 - EKP 7
				Toggle To	EKP 1 - EKP 7
				Unassigned	
	Key State	es			
		Force Off (default)		
		Retain			
	Virtual E				
	virtual E.				
		None			
		1 EKP thro	ugh 6 EK	Ps for DKP-4016	
Solo					
	Тар Кеу				
Tallies	1 7				
1411100	Indefinite				
	maerinite		<u> </u>		
		Disabled (c	iefault)		
		Enabled			
	Min Dura	ation			



OMNEO Offers Menu

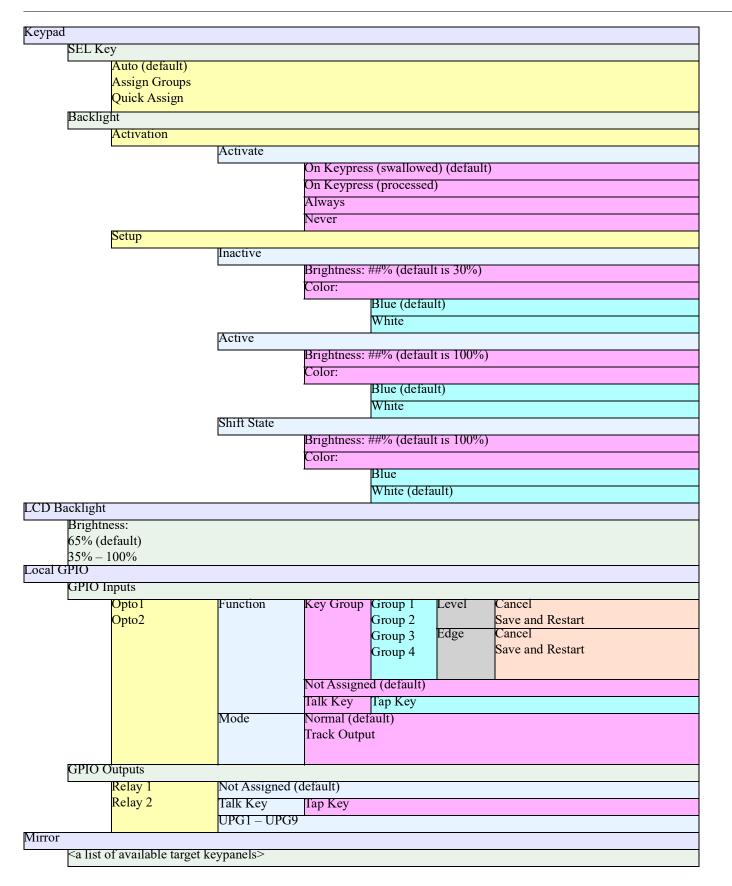
Keypanel	
	ОКР
	Port #> - Shows a list of all OMNEO offers
	AIO - If an RVON-IO or an OEI-2 is connected, it shows that device instead
	Disabled
	Enabled (default)
Aux Input	
1	OMNEO 1
	Port #> - Shows a list of all OMNEO offers
	OMNEO 2
	Shirk 20 2 Port #> - Shows a list of all OMNEO offers
	OMNEO 3
	<pre>KPort #> - Shows a list of all OMNEO offers</pre>
	OMNEO 4
	CIVINED 4 Kerr #> - Shows a list of all OMNEO offers
	OMNEO 5
	<port #=""> - Shows a list of all OMNEO offers</port>
	OMNEO 6
	<port #=""> - Shows a list of all OMNEO offers</port>
	OMNEO 7
	<port #=""> - Shows a list of all OMNEO offers</port>
	OMNEO 8
	Port #> - Shows a list of all OMNEO offers

Save Config Menu

Configuration Saved

Service Menu

Iphas
4 Chars (default)
6 Chars
8 Chars
8 Chars (Unicode)
Lux Select
Number of Analog Inputs 0
Number of Analog Inputs I
WW
Number of Entries
3 through 9
On New Caller
Don't Select
Select If Idle
Select New Call
Display
Menu Context
Disabled
Enabled (default)
Show Volume
Disabled (default)
Enabled
KP32 Emulation
Disabled (default)
Enabled
ootswitch
Mode
Disabled (default) Enabled
Latched Keys
Retain (default)
Unlatch
ntercom Mode
Alternate
Standard (default)
ey View
Show Gain
Disabled (default)
Enabled
Show Lstn
Disabled (default) Enabled
Enabled (Suppress Auto)
Show Mtx
Disabled (default)
Enabled
Enabled (Suppress Local)



DKP-4016

OMNEO Set	up				
OKP	-				
OEI-	2 (if attached)				
	Device Name				
	<pre></pre> <displays allows="" and="" device="" editing="" name=""></displays>				
	DHCP				
	Disabled (default)				
	Enabled				
	IP Parameters				
		IP Address <dis< td=""><td>splays IP Address and allows editing></td></dis<>	splays IP Address and allows editing>		
		Netmask <displays allows="" and="" editing="" netmask=""></displays>			
		Gateway <displays allows="" and="" editing="" gateway=""></displays>			
		DNS Server 1 <displays allows="" and="" dns="" editing="" server=""></displays>			
			ays Domain Name and allows editing>		
Dene		Domain arbpi			
Page Change					
	o (default)				
	ays Allow Calk K avs				
	Calk Keys				
Reset Cfg					
Canc					
Do R					
	Configuration R	eset			
Scrn Saver					
Activ	vate				
Dela	У				
	Display Dim				
		Delay Time:	I hour (default) (30 min, 1 – 12 hours, and Disabled)		
	Activation				
		Delay Time:	1 hour (default) (30 min, 1 – 12 hours, and Disabled)		
Disp	lay Dim				
-		(default) (0% – 10	0%)		
Mod	-	× /×	·		
	Bitmap				
	1	Bounce			
		Scroll (default)			
	Display Off	(
	Text (default)				
	Text (default)	Bounce			
		Scroll (default)			
Set Address		seron (default)			
	ID <1-8>				
Canc					
	and Restart				
Snoop Tally					
Chin					
		System #1 - System	#12 (User #1-4 available only with the Audio Package)		
Dura	tion:				
		lt) (1 sec, 2 sec, 3 s	ec, 4 sec, 5 sec, 10 sec, 15 sec, 20 sec, 30 sec, 60 sec, 90 sec, 2 min, 3 min,		
	<mark>4 min, 5 min)</mark>				
Test Panel					

APPENDIX C Unicode Support

AZedit and Unicode Support

Minimum firmware revision requirements for Unicode support are:

- MCII-e v2.4.0 or later
- AIO-8 v10.5.0 or later
- AIO-16 v1.3.0 or later
- Cronus v1.8.0 or later
- Zeus III v1.3.0

- KP 32 CLD v1.3.0 or later
- KP 12 CLD v1.1.0
- RP-1000 v2.0.0
- KP12/4U v1A.0.26 (Cyrillic character set only)
- DKP-4016 v1.1.1

To configure the keypanel for Unicode operation, do the following:

- 1. On the keypanel, select Service|Alphas|8 Chars (Unicode)|Save and Restart.
 - **NOTE:** If using the keypanel with Japanese firmware, you must also configure the correct Intercom Mode. See "Service Menu, Intercom Mode" on page 223.
- 2. From the Options menu in AZedit, select **Preferences**. *The Application Preferences window appears*.
- **3.** Select the **Advanced** tab. *The Advanced page appears.*
- 4. Select the Allow intercom resizing in ONLINE mode check box.

Application Preferences	<u>? ×</u>
Startup / Shutdown Alphas Logging General	Advanced Authentication Maintenance
 Enable panel poll delay support Enable TIF / phone support Enable trunking support Enable SERVER mode support Enable alarm notification popup 	 Allow intercom resizing in ONLINE mode Allow key state changes Allow changes to TM communications Allow firmware download Allow license download
Firmware Files (.HEX, .MOT, .BIB): C:\Telex\AZedit\FIRMWARE SNMP Configuration Files (.AZS): C:\Telex\AZedit\SNMP	
Debug Files (.AZD): C:\Telex\AZedit\DEBUG License Files (.LIC):	
ОК	Cancel Apply Help

- 5. Click Apply.
- 6. Click OK.

The Application Preferences window closes.

IMPORTANT: You are about to erase the entire intercom setup! Be sure to save your file.

- **7.** From the Options menu, select **Intercom Configuration**. *The Intercom Configuration window appears*.
- 8. Click the **Options** tab. *The Options page appears.*

9. Select the Enable Unicode Alphas check box.

Intercom Configuration	<u>?</u> ×
Resources Options	
Resources Uptions Talk levels 1 Listen levels 1 Panels with Key Labels 34 Key Labels Per Panel 64 Use input alphas 64 Auto listen functions pick up all talk levels Always stack callers in call waiting window Configure onboard GPI Outputs in FR952 Allow for remote trunk master Image:	w 🔽 Don't generate indefinite PL tallies
	<u>R</u> eset to Defaults
	Apply Cancel <u>I</u> est Help

10. Click Apply.

The Intercom Configuration window closes.

- **11.** From the Options menu, select **Preferences**. *The Application Preferences window appears.*
- **12.** Click the **Alphas** tab. *The Alphas window appears.*

13. From the Preferred alpha size drop down menu, select **8-UNICODE characters**.

Application Preferences	×
Startup / Shutdown Alphas Logging General Advanced Authentication Maintenance	
Sort alphas: by alpha (ascending)	
Allow alpha edit from any view (CTRL+F12)	
Show <u>all sizes on alpha views</u>	
Automatically check for duplicate alphas after opening a file	
Prompt before auto-checking when file is opened	
Prompt when duplicate alpha is created	
Suppress default alphas from pick lists	
Limit alpha character set to the KP-12 character set	
Force alphas to uppercase	
Force Unicode ASCII and Katakana characters to full- <u>w</u> idth	
Preferred alpha size: 4-characters 4-characters 6-characters 8-characters 8-characters 8-UNICODE characters 8-UNICODE characters	
OK Cancel Apply Help	

- 14. Click Apply.
- 15. Click OK.

The Application Preference window closes.

To restore the system configuration, do the following:

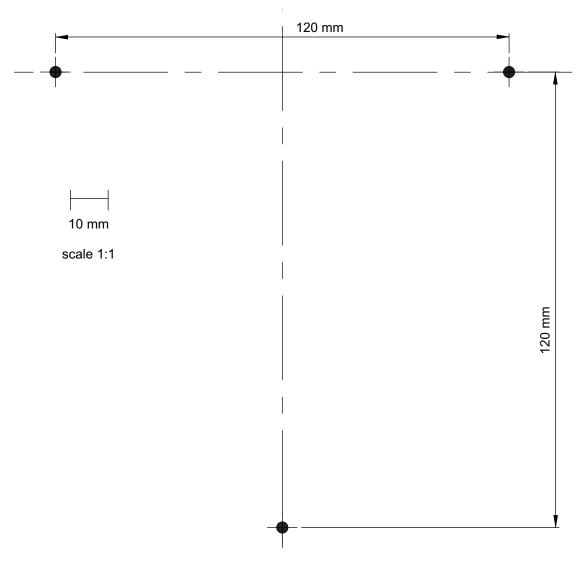
- 1. From the Online menu, select **Send File**.
- 2. Navigate to the system configuration file (.adm) you want to restore.
- 3. Click OK.

APPENDIX D Wall Mounting Option

Wall Mount Instructions

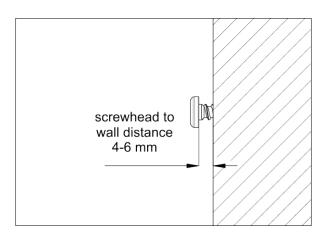
To wall mount the DKP-4016W, do the following:

1. Using the screw-hole template and a pencil, mark the **three(3)** hole locations on the wall.



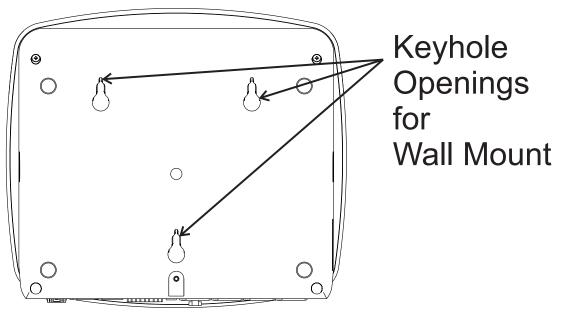
NOTE:

- It may be necessary to predrill the holes or use screw anchors, depending on the type of material the wall is constructed.
- The DKP-4016W is supplied with three (3) wood screws. If you need to use different screws due to different wall material, be sure to adhere to the following guidelines:
 - Screw diameter: M5
 - Head diameter: no more than 10mm across
 - •Head height: no more than 3.5mm tall
 - 2. Using a screw driver, drive the screws into the predefined holes.
- **IMPORTANT:** It is necessary for all screws to protrude from the wall at approximately the same height. The height should be 4-6mm from the underside of the screw head to the wall.



- If the screw is inserted too far, the unit cannot latch in place.
- If the screw is not inserted far enough, the unit is not locked in place properly and can potentially fall off the wall.

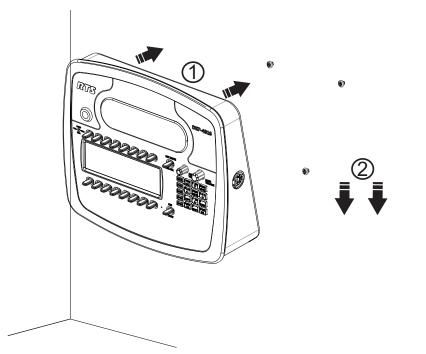
3. Align the **bottom of the unit** over the screws, allowing the screw heads to slide into the largest part of the key hole opening.



Bottom-side of DKP-4016W unit

IMPORTANT: Make sure all the screws are secure in the keyholes on the bottom of the unit.

4. Gently slide the unit downward, ensuring it locks into place.



Audio and Control Add-On Packages

The Audio and Control Add-On Packages for the DKP-4016/4016W greatly expand your keypanel and intercom system experience and capabilities. The Audio package delivers voice messaging for when a user has stepped away from a panel, additional OMNEO channels, additional equalization bands, and adjustable compression and noise gating. The Control package offers real-time control of keypanels from AZedit as well as from another keypanel. It also offers KP Configuration from AZedit, allowing you to upload a keypanel configuration from a keypanel, make changes to the configuration and then download it to one or multiple licensed keypanels across your system. In addition, it includes two ways of customizing the keypanel with downloadable chimes and downloadable screen savers.

Below is a chart detailing what is included with each package.

Audio Package	Control Package	
• Additional AUX Channels 3 – 8 via OMNEO	Downloadable Screen Saver (See "Download Screen Savers (Control Package Only)" on page 167.)	
 Voice Messaging (See "Voice Messaging (Audio Package Only)" on page 59.) 	• Real-time Control (See "Real-Time Control in AZedit (Control Package Only)" on page 88.)	
• Adjustable Compression (See "Compression" on page 176.)	• Keypanel Mirroring Mode (See "Keypanel Mirroring (Control Package Only)" on page 85.)	
 Adjustable Noise Gating (See "Noise Gate – Audio Package Only" on page 186.) 	• Keypanel Configuration (See "Keypanel Configuration (Control Package Only)" on page 98.)	
 5-band Equalization (See "Adjustable 5-Band Equalization – Audio Package Only" on page 179.) 	• Downloadable Chimes (See "Download User Chimes (Control Package Only)" on page 166.)	

Steps to getting the packages

- **Step 1** Upgrade AZedit to version 5.2.0.
- Step 2 Download the firmware version 1.2.0 to the keypanel. For download information, see "Download Firmware to the DKP-4016/4016W From AZedit" on page 149.
- Step 3 Download the license files to your keypanel. (downloaded like firmware)
- Step 4 Download the VM chimes and icons (downloaded like firmware)
- **NOTE:** For information on downloading firmware, see "Download Firmware to the DKP-4016/4016W From AZedit" on page 149. Take note, the VM chimes and VM icons are .mot files and should be treated as firmware downloads, not Chimes or Icons. Panels shipped from the factory with v1.2.0 or higher, include VM chimes and VM icons pre-installed.

Download License Files

License files activate the packages you have purchased. Similar to firmware files, license files are downloaded to the to keypanel via AZedit; unlocking the intended features

To download/activate license files, do the following:

- 1. Open AZedit.
- 2. From the Status menu, select **Software Versions**|**Keypanels**. *The Keypanel Version Information window appears*.
- 3. Select the port number where the keypanel with the license is located.

4. Highlight the **Port** (keypanel) to be updated.

You may select more than one (1) at a time by holding CTRL key down while you select. But, you must make sure every MAC ID matches before downloading.

IMPORTANT:

To find the MAC Address of the keypanel, do one of the following:

• Find it in IPedit

- Find it in the Display menu at "Display Menu, MAC Address" on page 202
- Find it in the Info menu at "INFO button" on page 39

File Online Authentication Edit View System Alphas Status Options Logging Help				
D 😅 🖻 🖬 🚭 🖉 🖻 🖉 🧢 🗶 🗠 🗠 🌽 🍐 🖻 💼 Q 🍎 🕇 F + ++ +				
PC	Port 🛆 Alpha Version			
	061	N061	n/a	
	062	N062	n/a	
	063	N063	n/a	
	064	N064	KP-5032, Version 1.0.2, M	Info
	065	N065	n/a	Develop 1 Common
	066	N066	n/a	Download firmware
	067	N067	n/a	Download splash screen
	068	N068	n/a	Download screen saver
	069	N069	n/a	Download icons
	070	N070	n/a	Download chime
	071	N071	n/a	Download keypanel configuration
	072	N072	n/a	Download license
	072	N072		

- **5.** Right-click the **highlighted selections**. *A popup menu appears*.
- 6. Select **Download license...**. *The License Download window appears*.
- 7. Navigate to the license file.
- 8. Click Open.

The Download License File window appears.

Download License File		? ×
Download Information Type of Download: Selected Device(s): File to download:	Keypanel 64 Licenses.lic	Begin Download Cancel
Download Status		

DKP-4016

 Click Begin Download. The license file is downloaded and unlocks the licensed features purchased.

Once you have installed the package(s) you purchased, the following icon appears at power up for five seconds and then disappears:



Only the Audio Package is installed.

Only the Control Package is installed.



Both the Audio and Control Packages are installed.

Bosch Security Systems, LLC

12000 Portland Avenue South Burnsville, MN 55337 U.S.A. www.boschcommunications.com