ALLEN&HEATH

Allen & Heath Limited Kernick Industrial Estate Penryn, Cornwall, TR10 9LU, UK www.allen-heath.com

SQ-6

Technical Datasheet

Overview

- Compact Digital Mixer for Live, Studio and Installation
- 48 Input Channels
- 24 Local Mic Inputs (XLR)
- 2 ¼" Stereo Inputs (TRS)
- 1 3.5mm Stereo Input
- 36 Total Busses
- 12 Stereo Mix (Aux or Group) + Main
- PAFL Bus
- 16 Assignable Local Outputs (14 XLR + 2 ¼" TRS)
- AES Digital Output
- Dedicated Talkback mic input (XLR)
- 1/4" TRS Headphone out with dedicated control
- SLink EtherCON connection for remote audio using dSnake, DX or gigaACE protocol (64x64 channels)
- I/O Port for Option Card (including 3rd party protocols Dante/Waves)
- 8 Mute Groups
- 8 DCA Groups
- 8 Stereo FX with dedicated FX Returns
- DEEP Processing Ready
- RackFX Effects suite
- 7" colour touchscreen
- 16 Assignable SoftKeys
- 4 Assignable Soft Rotaries
- Dedicated physical controls for channel processing (Gain, HPF Frequency, Gate Threshold, Compressor Threshold, Pan, EQ Gain/Frequency/Width)

- 24+1 Faders with 6 Layers for 144 assignable Channel Strips
- Motorised faders for sends on faders, GEQ fader flip and mix recall
- 24 Backlit LCD Channel Strip displays
- Single Point Metering
- Integrated Surface Illumination
- Single/Dual Footswitch Control
- Input channel linking for stereo sources
- Patchable Insert points
- Input processing Preamp, HPF, Gate, PEQ, Compressor, Delay
- Output processing PEQ, Graphic EQ, Compressor, Delay
- Automatic Mic Mixing
- 31 Band Real Time Analyser
- Quick copy/paste/reset for parameters
- User Permissions to restrict operator access
- 300 Scene memories per show
- Channel Safes, Global and per Scene Recall Filters
- FX, processing and channel Libraries
- SQ-Drive for stereo and multitrack recording/playback direct to USB drive
- USB transfer of Scenes, Libraries, Shows
- 32x32 channel USB streaming to/from Mac/PC
- DAW Control driver for MIDI control via USB or TCP/IP
- Wireless remote mixing apps for iPad and Android
- Compatible with ME personal monitoring range





A&E Specifications

The mixer shall be a compact digital mixer built around a 96kHz XCVI FPGA core with 48 input channels mixing to LR and 12 stereo mix outputs.

The surface shall include 25 moving faders with 6 layers, each layer having dedicated keys, giving easy access to input channels, mixes, FX sends, FX returns, DCA masters and MIDI control.

Each fader strip shall have dedicated PAFL, Select, and Mute buttons with indicators, a variable LED meter, a peak indicator LED and variable colour backlit LCD display.

There shall be dedicated physical controls which allow for adjustment of key processing parameters, and which follow the select button for the input and output channels.

The fader and rotary controls shall be of a high contrast colour to the mixer surface for excellent visibility during operation in low light conditions. The rotary controls shall also be illuminated to indicate function and availability for use.

Send levels to mixes shall be displayed and adjusted using the faders.

Surface illumination shall be integrated into the bodywork of the mixer.

Local analogue inputs shall use balanced XLR sockets and connect to fully recallable digitally controlled preamplifiers. These shall be able to provide up to +60dB of gain, industry standard 48V phantom power, and include a switchable -20dB Pad to allow a maximum input level of +30dBu. Local analogue outputs shall be provided on 12 XLR sockets and 2 balanced TRS ¹/₄ inch Jack sockets. These will have a nominal line output of +4dBu and a maximum output of +22dBu.

There shall be a local "SLink" Ethernet audio expansion port with locking EtherCON connector, supporting multiple AoIP protocols and providing access to 64x64 digital channels, connected over a single cable 'digital snake' and allowing remote preamp control of Allen & Heath Remote Audio Units, as well as connection to Allen & Heath ME Personal Mixing Systems.

A digital I/O Port shall be provided to accept optional cards, supporting 64x64 channels and the ability to interface with 3rd party AoIP protocols such as Dante and Waves.

All input and output processing, routing options and system configuration shall be accessed and adjusted

via a 7-inch colour touchscreen and associated dedicated rotary control.

16 user-assignable SoftKeys with variable colour LED illumination shall be provided for quick access to Input/Mix/DCA/Group Mutes, Tap Tempo, Scene Controls, MMC and SQ-Drive Controls, as well as 4 assignable rotary encoders with LCD display showing their current function.

A footswitch connection shall be provided to allow assignable control from an optional single or dual footswitch.

There shall be dedicated keys for quick Copy/Paste/Reset of processing parameters and mixes.

The ability to assign channel on/off status and to switch between Pre/Post fade to the currently selected mix shall also be provided with dedicated keys.

All input channels shall contain the following processing: Polarity, Trim, Insert, Gate, High Pass Filter, Parametric EQ, Compressor, Delay, Pan. All FX Return channels shall contain the following: Parametric EQ, Pan.

All output mix channels shall contain the following processing: External input, Polarity, Trim, Insert, Parametric EQ, and Graphic EQ with RTA and faderflip mode, Compressor, Delay, Balance.

All signal delays in the system shall be adjustable in Milliseconds.

The mixer will allow the insertion of Allen & Heath DEEP processing models to channels, without affecting latency or processing abilities.

8 user-assignable effect racks shall be provided with a library of factory preset FX emulations. The FX racks shall be individually configurable as send/return from a channel or FX/Mix, or inserted into input or output channels.

There shall be 8 DCA groups and 8 Mute groups.

An Automatic Mic Mixer shall be provided for automatic and dynamic adjustment of gain in spoken word applications.

A global source option for the direct out of each input channel shall be provided in the routing screen. The tap-off point shall be adjusted to the following positions in the processing path: post Preamp, post HPF, post Gate, post Insert return, post PEQ, post Compressor, and post Delay. There shall be further global options to follow Fader, DCA and Mute. Direct outputs shall be assignable via the mixer soft patch bay.

A Talkback facility shall be provided with the ability to send to any output mix with on screen status indication. An option to enable talkback latching and HPF shall be provided. A signal generator shall be provided with the ability to send a variable level signal to any output mix with visual assignment status on-screen. The following types of signals shall be available: Sine, White Noise, Pink Noise, and Band-Pass.

Comprehensive input, output, and FX channel and RTA metering shall be provided on-screen. 12-LED bar meters on the surface shall indicate the Main mix bus level and the PAFL signal shall override the LR meters accompanied by a PAFL-active indicator.

A default Mains to PAFL sub-mix shall be provided.

There shall be a USB Type-A connector on the surface for stereo/multitrack recording/playback, data-transfer, archiving, and firmware updates direct to USB drives. On the rear panel there shall be a USB-B connection following the USB 2.0 standard for multi-channel, bidirectional audio streaming and MIDI DAW control between the mixer and a computer. A DAW transport control using popular DAW control

a DAW transport control using popular DAW control protocols for computer shall be available via the touch-screen.

Stereo digital output shall be provided on XLR following the AES/EBU standard and with switchable sample rates.

The mixer shall provide a Fast Ethernet (100 Mbit/s) port for Cat5 cable connection to a computer for MIDI over TCP/IP control of mixer parameters via a wireless router (access point) for live mixing control, and the mixing system shall include application software for tablet and phone devices connected via a wireless network router to the LAN port.

Input and output channel processing and parameters in the mixer shall be saved on demand as a user library item for recall in other channels. All library items shall be archived with the show-file. Library items shall be transferrable to USB drive as portable data to be used in other systems.

The mixer shall provide the facility to save 300 scenes of the settings of the mixing system and these scenes shall be nameable.

A comprehensive table of 'Scene Safes' shall be provided to prevent selected items from being changed from their state when the safe was enabled. A comprehensive scene filter shall be provided per scene to Allow / Block each parameter saved in a scene from being changed as that scene is recalled.

An option shall be provided for password protection for log-in of several users with different levels of system access and permissions. A particular scene may be chosen to be recalled per change of userlogin if desired.

The mixing system shall periodically record all current settings and return the mixer to that state after reboot following a power-cycle. The mixing control surface shall have a built in power supply accepting AC mains voltages of 100~240V, 50/60 Hz, 90W max via an earthed 3-pin IEC male connector mounted on the rear chassis. A Two Pole Push-Button switch shall be provided near the mains input.

Recommended operating temperature for the mixer shall be 5 to 35 degrees Celsius.

The mixer shall be the Allen & Heath SQ-6.

Dimensions







SQ SYSTEM BLOCK DIAGRAM



Mixer Specifications

Input Sensitivity-60Switchable Pad-200Analogue Gain0dBMaximum Input Level+30Input Impedance>5THD+N, Unity gain 0dB0.00DireDireTHD+N, Mid gain +30dB0.00DirePhantom Power+44Stereo Line Inputs	anced XLR, fully recallable to $+$ 0dBu dB 8 to $+$ 60dB, 1dB steps 0dBu 5k Ω 02% -92dBu (20Hz-20kHz, AES ect Out, @0dBu 1kHz) 03% -91dBu (20Hz-20kHz, AES sect Out, @-30dBu INPUT 1kHz) 8V ($+$ 3V / -2V)	Faders Touch Screen SoftKeys Mute Groups / DCA Groups Network MIDI Footswitch	100mm motorised 7" Capacitive, 800 x 480 resolution, 24 bit RGB 8 (SQ-5), 16 (SQ-6) 8 / 8 TCP/IP Ethernet for MIDI and Control TCP/IP and USB B Single or Dual, Momentary or Latching*
Switchable Pad-200Analogue Gain0dBMaximum Input Level+30Input Impedance>5THD+N, Unity gain 0dB0.00DireTHD+N, Mid gain +30dB0.00DirePhantom Power+44Stereo Line Inputs	dB B to + 60dB, 1dB steps 0dBu $5k\Omega$ 02% -92dBu (20Hz-20kHz, AES ect Out, @0dBu 1kHz) 03% -91dBu (20Hz-20kHz, AES ect Out, @-30dBu INPUT 1kHz)	SoftKeys Mute Groups / DCA Groups Network MIDI Footswitch	8 (SQ-5), 16 (SQ-6) 8 / 8 TCP/IP Ethernet for MIDI and Control TCP/IP and USB B
Analogue GainOdBMaximum Input Level+ 30Input Impedance> 5THD+N, Unity gain 0dB0.00DireTHD+N, Mid gain + 30dB0.00DirePhantom Power+ 48Stereo Line Inputs	B to \pm 60dB, 1dB steps OdBu Sk Ω 02% -92dBu (20Hz-20kHz, AES ect Out, @OdBu 1kHz) 03% -91dBu (20Hz-20kHz, AES sect Out, @-30dBu INPUT 1kHz)	Mute Groups / DCA Groups Network MIDI Footswitch	8 / 8 TCP/IP Ethernet for MIDI and Control TCP/IP and USB B
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Dire Phantom Power +48 Stereo Line Inputs	ect Out, @-30dBu INPUT 1kHz)	0	
Stereo Line Inputs	8V (+3V / -2V)	0	
-		Source	
ST1 ST2 connectors Bala		CH1-48	Fully patchable
	anced, 1/4" TRS jack	USB Global Source	SQ-Drive or USB B Streaming
ST3 connector Unb	palanced, stereo 3.5mm Mini Jack		
Input Sensitivity (ST1, ST2 / Non ST3)	ninal +4dBu ST1, ST2 / 0dBu ST3	Polarity	Normal/Invert
Trim +/-	24dB	Trim	-24 to +24dB
Maximum Input Level +22 (ST1,ST2 / ST3)	2dBu / +18dBu	High Pass Filter	12dB/octave 20Hz – 2kHz
Input Impedance >7	kΩ	Insert (Pre EQ/Comp)	Fully Patchable
		Delay	Up to 341ms
Outputs 1-12 (SQ-5) and 1- Bala 14 (SQ-6)	anced, XLR		
Outputs A and B Bala	anced 1/4" TRS Jack	Gate	Patchable Sidechain
Source Pate	chable	Sidechain filter	Hi-pass (20-5k), band-pass (120-10k), Lo-pass (120-20k)
Output Impedance <75	5Ω	Threshold / Depth	-72dBu to +18dBu / 0 to 60dB
Nominal Output +40	dBu = 0dB meter reading	Attack / Hold / Release	$50 \mu s$ to 300ms / 10ms to 5s / 10ms to 1s
Maximum Output Level +22	2dBu		
Residual Output Noise -900	dBu (muted, 20Hz-20kHz)	PEQ	4-Band fully parametric, 20-20kHz, +/-15dB
		Band 1, Band 4	Selectable Shelving (Baxandall), Bell
AES Digital Output Bala	anced XLR 2 channel,	Band 2, Band 3	Bell
	kHz sampling rate (Default with SRC vassed)	Bell Width	Variable Q, 1.5 to 1/9th octave
Swit	tchable output sample s,44.1kHz/ 48kHz/ 88.2kHz/ kHz)		
2.5\	Vpp balanced terminated 110 Ω	Compressor	Patchable Sidechain
		Sidechain filter	Hi-pass (20-5k), band-pass (120-10k), Lo-pass (120-20k), Q=1
Connection Neur	trik EtherCON (RJ45)	Threshold / Ratio	-46dBu to 18dBu / 1:1 to infinity
	channels assignable, compatible n AR2412, AR84, AB168, ME	Attack / Release	30µs to 300ms / 50ms to 2s
	channels assignable*, compatible n DX168	Кпее	Soft/Hard
	channels assignable, compatible n dLive, SQ and DXHub*	Detector response	Peak/RMS switchable
Inputs Fully	y Patchable	Parallel Path Compression	dry/wet -infin to 0dB
Outputs Fully	y Patchable		
	ignable as master audio sync for all des, * SRC 64 channel	Channel Direct Out	Follow Fader, Mute, Mute Group, DCA (global all ch)

Multi-channel lo option model Point Point Action Point Point Action Inputs Multi-channel lo option model Fully Patchable Fully Patchable Darports Roly Patchable Fully Patchable Fully Patchable Syno3RC Rescript bias matter audio syno Fully Patchable Fully Patchable Dipy Up to B2min Rescript bias matter audio syno Fully Patchable Properties Patchable Rescript bias matter audio syno Fully Patchable Dynamic Range 112 dB Rescript bias matter audio syno Rescript bias matter audio syno Rescript bias matter audio syno Properties 112 dB Rescript bias matter audio syno Rescript bias matter audio syno Rescript bias matter audio syno Propering 112 dB Compension As Read K respins, Statum or Instanti (4 databat B) audio synons Matter Calibration OBB OBB Statum or Instanti (4 databat B) audio synons Statum or Instanti (4 databat B) audio synons Matter Calibration OBB Patchable Statum or Instanti (4 databat B) audio synons Matter Calibration OBB matter = -18dBFS (+ 4dBu at XLR or Instanti (2 databat S) audio Synons			Source select	Post-Preamp, Post-HPF, Post Gate, Insert Return,
IndustFully PatchableInstart (Pre EQL correctInstart (Pre EQL correctSyncy SRCassignable as matier audo syncFuer (Pre EQL correctFuel PatchableSyncy SRCassignable as matier audo syncGEQSincy STI-16Hz, +-1/28G Gain, ConstantDynamic Range12 d8PEQAs Input PEQPregency Response140-056 20Hz to 20HzCorrectorAs Input PEQBactoring Response140-056 20Hz to 20HzCorrectorSint PEQInternal Operating Level0BBInternal FXSint AsPC ranges, Sint STI-16HZ, +-1/28G Gain, ConstantThe As May Corrector12 d8PEQAs Input PEQBactoring Level0BBInternal FXSint RANGE ranges, Sint STI-16HZ, +-1/28G Gain, ConstantThe As May Corrector12 d8PEQAs Input PEQBactor12 d8Internal FXSint RANGE ranges, Sint STI-16HZ, +-1/28G Gain, ConstantThe As May Corrector12 d8Internal FXSint RANGE ranges, Sint STI-16HZ, +-1/28G Gain, ConstantThe As May Corrector12 d8Internal FXSint RANGE ranges, Sint STI-16HZ, +-1/28G Gain, ConstantThe As May Corrector13 d8Sint Sint Sint Sint Sint Sint Sint Sint		Multi-channel IO option module		
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The Hu, McLine routed to Main Life OutWinky gain ladersa@Ods, 0.006%, - Skidba (20 - 20kHz)TypesGaller, Main ADT, BuschoutsMain Life Out1188B = 0.00876 (+ 228Bu at XLR out)Symphonic Chorus, Flanger, PhaserMeter Calibration008 meter = -1848FS (+ 4dBu at XLR out)8 dedicated Stereo FX refurnsFader, Pan, Mule, Routing to MkvLR, 4-Band PED Delay, Un to Stereo In-place AFL, 0 to -24dB Trim, PAFL Delay Up to Stereo In-place AFL Out any Trim, Up to Hold Trim, up	Headroom	+18dB		
Man L/R Out84dibs (20 - 200kit)MarkATT, BlueChorusdBFS Alignment+1680b - 00dFS (+22dBu at XLR out)Symphonic Chorus, Flanger, PhaserMater CalibrationOdB moter16dBFS (+4dBu at XLR out)& dedicated Steree FX returnsFader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ returnsMain Meter Type2 x1 2 segment, fast (peak) responseFader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ returnsChannel Meter Type2 x1 2 segment, fast (peak) responseFader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ returnsChannel Meter Type2 x12 segment, fast (peak) responseFalkbackPEL or stereo in-place AFL, 0 to -240B Trim, PAFL Delay Up to 862msSampling Rate96kHzSignal GeneratorAssignable to any mix, Gain, Pad, 489, 1-2dB/oct HPFSampling Rate96kHzSignal GeneratorAssignable to any mix, Gain, Pad, 489, 1-2dB/oct HPFLatency<0 drog C to 40 deg C (32 deg F to 104 Main LR, (Direct, No EQ/ Effects)Stereo RecordUSB AOperating Temporature Rage0 deg C to 40 deg C (32 deg F to 104 Main S PowerStereo Record10 channel, WAV, 461, 46, 96kHz, 24-bit, source fully patchableMain S Power100-240V AC, 50/60HzStereo Playback11 channel, WAV, 96kHz, 24-bit, track sources fully patchableSo-5Width X Depth X HeightUSB Audio Streaming 12 channel, WAV, 96kHz, 24-bit, track sources fully patchablePacked in shipping box610 x 680 x 300 mm (24* x 26.5* x 7.8*)Send (upstream)32 channel, 96kHz, 24-bitPacked weight10 x g(23.1 mk)Return (downstream) <td>Internal operating Level</td> <td>OdBu</td> <td>Internal FX</td> <td></td>	Internal operating Level	OdBu	Internal FX	
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