

Mixer Specifications

Mic/Line Inputs	Balanced XLR, fully recallable	Faders	100mm motorised
Input Sensitivity	-60 to +0dBu	Touch Screen	7" Capacitive, 800 x 480 resolution, 24 bit RGB
Switchable Pad	-20dB	SoftKeys	8 (SQ-5), 16 (SQ-6, SQ-7)
Analogue Gain	0dB to +60dB, 1dB steps	SoftRotarys	4 (SQ-6), 8 (SQ-7)
Maximum Input Level	+30dBu	Mute Groups / DCA Groups	8 / 8
Input Impedance	>5kΩ	Network	TCP/IP Ethernet for MIDI and Control
THD+N, Unity gain 0dB	0.002% -92dBu (20Hz-20kHz, AES Direct Out, @0dBu 1kHz)	MIDI	TCP/IP and USB B
THD+N, Mid gain +30dB	0.003% -91dBu (20Hz-20kHz, AES Direct Out, @-30dBu INPUT 1kHz)	Footswitch	Single or Dual, Momentary or Latching
Phantom Power	+48V (+3V / -2V)		
Stereo Line Inputs		Source	
ST1, ST2 connectors	Balanced, 1/4" TRS jack	CH1-48	Fully patchable
ST3 connector	Unbalanced, stereo 3.5mm Mini Jack	USB Global Source	SQ-Drive or USB B Streaming
Input Sensitivity (ST1, ST2 / ST3)	Nominal +4dBu ST1, ST2 / 0dBu ST3		
Trim	+/-24dB	Polarity	Normal/Invert
Maximum Input Level (ST1,ST2 / ST3)	+22dBu / +18dBu	Trim	-24 to +24dB
Input Impedance	>7kΩ	High Pass Filter	12dB/octave 20Hz – 2kHz
		Insert (Pre EQ/Comp)	Fully Patchable
XLR Outputs	Balanced, XLR	Delay	Up to 341ms
Outputs A and B	Balanced 1/4" TRS Jack		
Source	Patchable	Gate	Patchable Sidechain
Output Impedance	<75Ω	Sidechain filter	Hi-pass (20-5k), band-pass (120-10k), Lo-pass (120-20k)
Nominal Output	+4dBu = 0dB meter reading	Threshold / Depth	-72dBu to +18dBu / 0 to 60dB
Maximum Output Level	+22dBu	Attack / Hold / Release	50µs to 300ms / 10ms to 5s / 10ms to 1s
Residual Output Noise	-90dBu (muted, 20Hz-20kHz)		
		PEQ	4-Band fully parametric, 20-20kHz, +/-15dB
AES Digital Output	Balanced XLR 2 channel,	Band 1, Band 4	Selectable Shelving (Baxandall), Bell
	96kHz sampling rate (Default with SRC Bypassed)	Band 2, Band 3	Bell
	Switchable output sample rates, 44.1kHz/ 48kHz/ 88.2kHz/ (96kHz)	Bell Width	Variable Q, 1.5 to 1/9th octave
	2.5Vpp balanced terminated 110Ω		
		Compressor	Patchable Sidechain
SLink	Neutrik EtherCON (RJ45)	Sidechain filter	Hi-pass (20-5k), band-pass (120-10k), Lo-pass (120-20k), Q=1
dsnake mode (48kHz devices)	64 channels assignable, compatible with AR2412, AR84, AB168, ME, Qu	Threshold / Ratio	-46dBu to 18dBu / 1:1 to infinity
dx mode (96kHz devices)	32 channels assignable, compatible with DX168	Attack / Release	30µs to 300ms / 50ms to 2s
gigaACE (96kHz devices)	128 channels assignable, compatible with dLive, SQ and DXHub	Knee	Soft/Hard
Inputs	Fully Patchable	Detector response	Peak/RMS switchable
Outputs	Fully Patchable	Parallel Path Compression	dry/wet -infin to 0dB
Sync/SRC	assignable as master audio sync for all modes, SRC 64 channel		
		Channel Direct Out	Follow Fader, Mute, Mute Group, DCA (global all ch)
I/O Port	Multi-channel I/O option module	Source select	Post-Preamp, Post-HPF, Post Gate, Insert Return,
Inputs	Fully Patchable		Post PEQ, Post Comp, Post Delay
Outputs	Fully Patchable		trim -infin to 10dB per channel
Sync/SRC	assignable as master audio sync	Insert (Pre EQ/Comp)	Fully Patchable

Signal	Measured balanced XLR in to XLR out, 0dB gain, 0dBu input	Delay	Up to 682ms
Dynamic Range	112 dB	GEQ	28 bands 31Hz-16kHz, +/-12dB Gain, Constant 1/3 oct
Frequency Response	+0/-0.5dB 20Hz to 20kHz	PEQ	As Input PEQ
Headroom	+18dB	Compressor	As Input Compressor
Internal operating Level	0dBu		
THD+N, Mic/Line routed to Main L/R Out	Unity gain faders@0dB, 0.006%, -84dBu (20 - 20kHz)	Internal FX	8 x RackFX engine, Send>Return or Inserted (4 dedicated fx bus)
dBFS Alignment	+18dBu = 0dBFS (+22dBu at XLR output)	Types	SMR Reverb, StereoTap Delay, Gated Reverb, ADT, BlueChorus, Symphonic Chorus, Flanger, Phaser
Meter Calibration	0dB meter = -18dBFS (+4dBu at XLR out)		
Main Meter Type	2 x 12 segment, fast (peak) response	8 dedicated Stereo FX returns	Fader, Pan, Mute, Routing to Mix/LR, 4-Band PEQ
Channel Meter Type	Chromatic Channel Metering, fully programmable colour/brightness		
Peak Indication	-3dBFS (+19dBu at XLR out), multi-point sensing	PAFL	PFL or stereo in-place AFL, 0 to -24dB Trim, PAFL Delay Up to 682ms
Sampling Rate	96kHz	Talkback	dedicated input, Assignable to any mix, Gain, Pad, 48V, 12dB/oct HPF
Bit Depth	Uses XCVI core custom bit widths in algorithms, up to 96bits	Signal Generator	Assignable to any mix, Sine/White/Pink/Bandpass Noise
Latency	<0.7mS, Local Mic Input routed to Main L/R. (Direct, No Effects)	RTA	31-Bands 1/3 octave 20-20kHz, follows PAFL source
		SQ-Drive	USB A
Operating Temperature Range	0 deg C to 40 deg C (32 deg F to 104 deg F)	Stereo Record	2 channel, WAV, 96kHz, 24-bit, source fully patchable
Mains Power	100-240V AC, 50/60Hz	Stereo Playback	1/2 channel, WAV, 44.1, 48, 96kHz 16,24-bit, source fully patchable
Max Power Consumption SQ-5/SQ-6/SQ-7	75W / 90W / 110W	Multitrack Record	16 channel, WAV, 96kHz, 24-bit, track sources fully patchable
		Multitrack Playback	16 channel, WAV, 96kHz, 24-bit fully patchable
SQ-5	Width x Depth x Height		
Desk mounted	440 x 514.9 x 198 mm (17.3" x 20.3" x 7.8")	USB Audio Streaming	USB B, Core Audio compliant, ASIO/WDM for Windows
Packed in shipping box	610 x 680 x 360 mm (24" x 26.8" x 14.2")	Send (upstream)	32 channel, 96kHz, 24-bit
Unpacked weight	10.5 kg (23.1 lbs)	Return (downstream)	32 channel, 96kHz, 24-bit
Packed weight	14 kg (30.9 lbs)		
SQ-6	Width x Depth x Height	AMM	2x 24ch or 1x 48ch, freely assignable
Desk mounted	638 x 514.9 x 198 mm (25.1" x 20.3" x 7.8")	Mode	Gain Sharing
Packed in shipping box	820 x 680 x 360 mm (32.3" x 26.8" x 14.2")	Sidechain Filter HPF / LPF	12dB/octave 20Hz – 5kHz / 120Hz - 20kHz
Unpacked weight	14.5 kg (32 lbs)	Priority	-15dB to +15dB per channel
Packed weight	17.3 kg (38.1 lbs)		
SQ-7	Width x Depth x Height		
Desk mounted	804 x 514.9 x 198 mm (31.7" x 20.3" x 7.8")		
Packed in shipping box	960 x 685 x 360 mm (37.8" x 27" x 14.2")		
Unpacked weight	17.8 kg (39.3 lbs)		
Packed weight	21.9 kg (48.3 lbs)		