

USB-4 group 7x4 matrix mixer

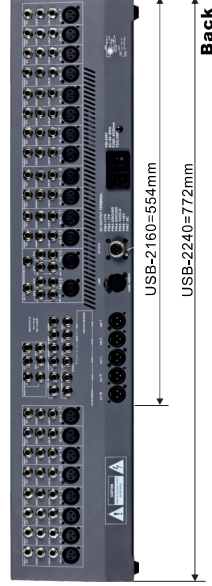
TECHNIQUE INDEX

Maximum input level	MIC +34dBu (inc pad) CH Line +34dBu Other Line +34dBu
Maximum output level	XLR +26dBu Jack +20dBu
Internal headroom	Channels +20dBu Mix +22dBu
Meters	3 color LED, quasi peak response
Sensitivity	0VU = +44dBu at XLR output
Master meters	12 segment -30 to +16dB
Channel meters	4 segment -12,0,+6,+16dB (5dB before clip)
Frequency response	20Hz to 20kHz +/-0.5dB
Mic CMVRR at 1kHz	> 80dB typical
THD+n at +14dBu, 1kHz	Channel to mix out < 0.003%
Crosstalk at 1kHz	Fader shutoff >90dB Mute shutoff >90dB Inter channel >90dB
Noise, rms 22Hz to 22kHz	Mic EIN -126dB
Residual output noise	< -96dBu (-100dB S/N)
LR mix noise 16 routed	< -86dBu (-90dB S/N)
Group mix noise 16 routed	< -86dBu (-90dB S/N)
Aux mix noise 16 routed	< -92dBu (-90dB S/N)
Mix noise 16 line 0dB gain	< -86dBu S/N
12dB/octave below 100Hz	
Channel HPF	
Mono EQ	HF Shelving +/-15dB, 12kHz HM Peak/dip +/-15dB, 500Hz to 15kHz, Q=1,8 LM Peak/dip +/-15dB, 35Hz to 1kHz, Q=1,8
LF Shelving	+/-15dB, 80Hz

USB-2 group 5x2 matrix mixer



USB-2160 / USB-2240



USB-2160=554mm

USB-2240=772mm

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USB-2 group 5x2 matrix mixer

CHARACTERISTIC

The USB-2240 is a 2-bus dual function analog mixing console designed for professional audio applications. Whether mixing FOH, monitors or both, recording live or in the studio, installed in a busy venue, out on the road touring, or earning its keep in rental stock, the USB-2240 provides the perfect solution. Engineered to the same exacting standards as our top of the range consoles, it ensures the highest reliability, and finest sonic performance. We have taken the outstanding success of our industry leading USB-2240 and provided yet more innovative capability and enhanced performance for modern mixing.

- 16, 24 channel frames
- LR and M main outputs
- 2 Audio groups with pan control
- 4 Auxiliary sends with per-channel prepost fader switching
- 2 stereo channels, each with mic and dual stereo line inputs
- 5x2 Matrix
- Proper dual functionality for FOH and/or Monitor mixing
- M can be configured as LR sum, Wedge, or Aux-Fed Sub or C master
- Recording capable with channel direct outputs
- Matrix external inputs with level trims and common input capability
- Stereo channel line inputs can be independently routed to LR
- Stereo channel mic input breakpoints for cross patching into matrix
- Responsive 4 band, 2 sweep EQ
- 100Hz channel high pass filters
- Individual phantom power and polarity switching
- Dedicated channel, master and stereo monitor meters
- Internal jumper plugs for pre/post-EQ aux, direct out and other options
- Mutes, meters and AFL on all fader masters
- Assignable talkback
- Built-in DSP effect
- 2-track monitoring and replay to LR
- Headphones and local monitor outputs
- Electronically balanced XLR outputs with +26dBu drive capability
- Preamp 74dB range with +34dBu input capability for mic or line
- Ultra low noise mix head amp design
- Internal power supply with redundant backup supply input
- Individual circuit card assembly with nutted pots
- 100mm ALPS protected faders
- Sys-link V2 console input/output linking option
- Metal jacks, gold-plated XLRs, sealed pots and switches
- USB digital audio connector can be connected with PC and stereo signal transfer.



TECHNIQUE INDEX

Maximum input level	MIC +34dBu (inc pad) CH Line +34dBu Other Line +34dBu
Maximum output level	XLR +26dBu Jack +20dBu Channels +20dBu Mix +22dBu
Internal headroom	
Meters	3 color LED, quasi peak response 0VU = +4dBu at XLR output
Sensitivity	12 segment -30 to +16dB 4 segment -12.0, +6, +16dB (5dB before clip)
Master meters	
Channel meters	
Frequency response	20Hz to 20kHz +/-0.5dB
Mic CMRR at 1kHz	> 80dB typical
THD+n at +14dBu 1kHz	Channel to mix out < 0.003%
Crosstalk at 1kHz	Fader shutoff >90dB Mute shutoff >90dB Inter channel -128dB
Noise, rms 22Hz to 22kHz	Mic EIN -128dB
	Residual output noise <-96dBu (-100dB S/N) LR mix noise 16 routed <-86dBu (-90dB S/N) Group mix noise 16 routed <-86dBu (-90dB S/N) Aux mix noise 16 routed <-92dBu (-90dB S/N) Mix noise 16 line 0dB gain <-86dBu S/N 12dB/octave below 100Hz
Channel HPF	
Mono EQ	HF Shelving +/-15dB, 12kHz HM Peak/dip +/-15dB, 500Hz to 15kHz, Q=1.8 LM Peak/dip +/-15dB, 35Hz to 1kHz, Q=1.8 LF Shelving +/-15dB, 80Hz

Stereo EQ	HF Shelving +/-15dB, 12kHz HM Peak/dip +/-15dB, 2.5Hz to 15kHz, Q=1.8 LM Peak/dip +/-15dB, 250Hz to 1kHz, Q=1.8 LF Shelving +/-15dB, 80Hz
Mono channel	XLR balanced pin 2 hot Sensitivity -60 to +14dBu TRS balanced, tip hot Sensitivity -40 to +14dBu 2k ohm >10k ohm, -20dB attenuation +34dBu Pad in (MIC or LINE) Max input level XLR phantom power +48V, on/off ST1,3 TRS unbalanced XLR balanced pin 2 hot S2,2,4 TRS balanced XLR balanced pin 2 hot Sensitivity -50 to -10dBu Phantom power Internal jumper +48V TRS unbalanced TRS impedance balanced >4k ohm, -20dB <75 ohm, -20dB
Stereo channel	Channel TRS, tip send, ring return, 0dBu TRS, tip send, ring return, -2dBu
Talkback mic	LR, M outputs XLR balanced pin 2 hot <75 ohm, +4dBu, +26dBu max Output TRS impedance balanced <75 ohm, +4dBu, +26dBu max
2-track return	LR, M outputs XLR balanced pin 2 hot <75 ohm, +4dBu, +26dBu max
2-track send	TRS unbalanced <75 ohm, +4dBu, +26dBu max
Inserts	Channel TRS impedance balanced <75 ohm, +4dBu, +26dBu max
L, R, M outputs	LR, M outputs XLR balanced pin 2 hot <75 ohm, +4dBu, +26dBu max
Group (aux) out	LR, M outputs XLR balanced pin 2 hot <75 ohm, +4dBu, +26dBu max
Aux 1-4 output	TRS impedance balanced <75 ohm, +4dBu, +26dBu max
Direct out	Electronic balance option <75 ohm, +4dBu, +26dBu max
Matrix out	TRS impedance balanced <75 ohm, +4dBu, +26dBu max
Headphones	Electronic balance option <75 ohm, +4dBu, +26dBu max
Monitor output	TRS, tip, L, ring, R, 30 to 600 ohm headphones recommended
Lamp	TRS impedance balanced <75 ohm, -2dBu, +20dBu max
Product model	4-pin XLR max 12V 5W lamp USB-2240
Size(LxWxH)mm	564x528x160
Net weight(kg)	772x529x160 13.9