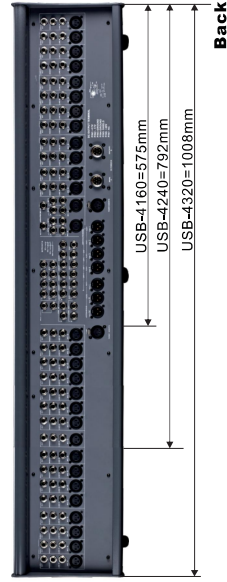


**USB-4 group 7x4 matrix mixer**



**USB-4160 / USB-4240  
USB-4320**



**CHARACTERISTIC**

The USB-4240 is a 4-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-4240 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-4240 and provided yet more innovative capability and enhanced performance for modern mixing.

- 16, 24, 32, channel frames
- LR and M main outputs
- 4 Audio groups with pan control
- 6 Auxiliary sends with per-channel pre/post fader switching
- 2 stereo channels, each with mic and dual stereo line inputs
- 7x4 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
- 1KHz oscillator and pink noise generator
- 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



**USB-4 group 7x4 matrix mixer**

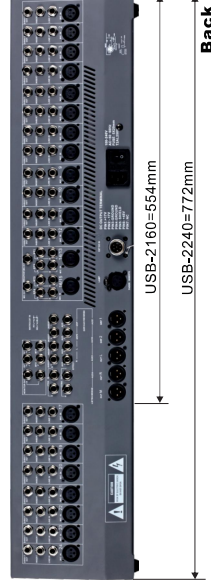
**TECHNIQUE INDEX**

|                            |   |
|----------------------------|---|
| Maximum input level        | MIC +34dBu (inc pad)<br>CH Line +34dBu<br>Other Line +34dBu<br>XLR +26dBu<br>Jack +20dBu<br>Channels +20dBu<br>Mix +22dBu                         |
| Maximum output level       |   |
| Internal headroom          |   |
| Meters                     | 3 color LED, quasi peak response<br>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<br>Mute shutoff >90dB<br>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<br>HM Peak/dip +/-15dB, 500Hz to 15kHz, Q=1,8<br>LM Peak/dip +/-15dB, 35Hz to 1kHz, Q=1,8<br>LF Shelving +/-15dB, 80Hz |

**USB-2 group 5x2 matrix mixer**



**USB-2160 / USB-2240**



USB-2160=554mm

USB-2240=772mm

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