



M-164, M-164FX, and M-164UF are analogue mixers with

16 input channels outstanding for their versatile connection concept, compact and stylish appearance and little weight. These consoles are perfect as keyboard or sub mixers on stage or for home recording or can be used as the heart of a small PA system on the road or installed in conference rooms, shops or restaurants.

Each model is equipped with six Mic/Line channel strips with XLR and TRS connectors as well as five stereo channel strips allowing virtually any possible audio source to be supplied to the mixer. A mini jack on the units' top panel, for instance, allows users to plug in their MP3 player. And a Phono input for a vinyl turntable is also available.

M-164FX and M-164UF feature an additional digital effects processor with 16 presets, and the M-164UF is additionally equipped with a USB audio interface providing 16 audio inputs and two audio outputs on a connected computer – ideal for multi-track recording in a home studio or on the road.

▶ **Compact 16-channel analogue mixers**

- M-164: basic model
- M-164FX: with effects
- M-164UF: with USB audio and effects

▶ **6 XLR Mic/Line input modules**

- 48V phantom power (switchable on/off)
- Switchable high pass filter (80 Hz, -12 dB)
- 3-band EQ (100 Hz / 2.5 kHz / 12 kHz, ±15 dB)

▶ **5 Stereo input modules with various types of input connectors**

- Ch. 7-8/13-14: 6.3-mm TRS (balanced)
- Ch. 9-10: RCA (unbalanced), switchable to RIAA Phono to connect a turntable
- Ch. 11-12: RCA (unbalanced)
- Ch. 15-16: Stereo mini jack (top panel)

▶ 2 Aux sends/returns (send 1 switchable pre/post fader, send 2 post fader)

▶ Stereo sub mix bus with TRS stereo sub output and TRS mono sub output

▶ Stereo master bus with 2-band EQ (100 Hz / 12 kHz, ±15 dB)

▶ Balanced TRS and unbalanced RCA stereo master outputs, pseudo-balanced TRS mono master output

▶ Headphones output with level control (switchable Master/Sub/Aux 1)

▶ Easy-to-read angled meter bridge

▶ External power supply (PS-1225L, included)

M-164FX and M-164UF only

▶ Built-in digital effect processor with 16 presets including Reverb, Delay, Chorus, Flanger, Chorus+Room, Rotary Speaker

M-164UF only

▶ Built-in USB 2.0 audio interface provides 16 audio inputs and 2 audio outputs at 96 kHz/24-bit on a connected computer (support for Windows XP, Windows Vista and Mac OS Tiger/Leopard)

M-164 • M-164FX • M-164UF

16-Channel Analogue Mixing Consoles

Specifications

Analogue inputs	
MIC inputs (ch. 1–6)	XLR–3–31, electronically balanced
Input impedance	2.4 kOhm
Nominal input level	–58 dBu, ±2 dB (at maximum gain) –14 dBu, ±2 dB (at minimum gain)
Maximum input level	+8 dBu, ±2 dB at minimum gain
Equivalent input noise	>–128 dBu (typically)
CMMR	>60 dB (at maximum gain)
LINE inputs (ch. 1–6)	6.3-mm TRS jack, electronically balanced
Input impedance	22 kOhm
Nominal input level	–38 dBu, ±2 dB (at maximum gain) +12 dBu, ±2 dB (at minimum gain)
Maximum input level	+28 dBu, ±2 dB (at minimum gain)
LINE inputs (ch. 7–8, 13–14)	6.3-mm TRS jack, electronically balanced
Input impedance	10 kOhm
Nominal/maximum input level	+4 dBu/ +26 dBu, ±2 dB
LINE input (ch. 9–10)	RCA, unbalanced
Input impedance	47 kOhm
Nominal input level	–10 dBV, ±2 dB –54 dBV, ±2 dB at 1 kHz (PHONO)
Maximum input level	+12 dBV, ±2 dB
LINE input (ch. 11–12)	RCA, unbalanced
Input impedance	10 kOhm
Nominal/maximum input level	–10 dBV/ +12 dBV, ±2 dB
LINE input (ch. 15–16)	3.5-mm mini jack, unbalanced (located on top panel)
Input impedance	10 kOhm
Nominal/maximum input level	–10 dBV/+14 dBu, ±2 dB

Analogue outputs	
STEREO OUTPUT BAL L–R	XLR–3–32, electronically balanced
Output impedance	150 ohm
Nominal/maximum output level	+4 dBu, ±2 dB
Maximum output level	+26 dBu, ±2 dB
STEREO OUTPUT MONO	6.3-mm TRS jack, pseudo balanced

Analogue outputs (continued)	
Output impedance	150 ohm
Nominal/maximum output level	–2 dBu/+20 dBu, ±2 dB (Stereo L+R)
STEREO OUTPUT UNBAL L–R	RCA, unbalanced
Output impedance	100 ohm
Nominal/maximum output level	–10 dBV/+20 dBu, ±2 dB
SUB OUTPUT BAL L–R	6.3-mm TRS jack, pseudo balanced
Output impedance	150 ohm
Nominal/maximum output level	+4 dBu/+20 dBu, ±2 dB
SUB OUTPUT MONO	6.3-mm TRS jack, pseudo balanced
Output impedance	150 ohm
Nominal/maximum output level	–2 dBu/+20 dBu, ±2 dB
AUX SEND1, SEND2	6.3-mm TRS jack, pseudo balanced
Output impedance	150 ohm
Nominal/maximum output level	+4 dBu/+20 dBu, ±2 dB
PHONES output	6.3-mm TRS jack
Maximum output power	45 mW + 45 mW (at 1% THD, 32 ohm load)

Audio performance	
Operational level	–2 dBu
Frequency response	20 Hz – 20 kHz, +1/–3 dB (MIC Input to all outputs, TRIM at max.)
Total Harmonic distortion (THD)	>0.1 % at 20 Hz – 20 kHz (MIC Input to STEREO XLR OUTPUT, TRIM at min.)
Hum and Noise	>–64 dBu (1 MIC input to STEREO XLR output, TRIM at max.) >–57 dBu (6 MIC inputs to STEREO XLR output, TRIM at max.)
Crosstalk	<–80 dB (1 kHz), <–60 dB (10 kHz)

Other specifications	
Power supply	PS–1225L AC adaptor (included)
Dimensions (W x H x D)	390 mm x 112 mm x 345 mm
Weight	2.8 kg (M-164) 3.0 kg (M-164FX) 3.2 kg (M-164UF)



M-164UF rear view

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