

PM-1 Mixer

Designed to meet the rigours of on-location recording; the TL Audio PM-1 4/2 mixer combines a superb feature list with a rugged all-metal construction.



PM-1

PORTABLE ENG MIXER

The TL Audio PM-1 4/2 mixer features include balanced inputs and outputs, phantom and 'T' powering, high pass filters and phase reverse, stereo coupling of inputs, MS decoding, onboard stereo limiting and a choice of PPM or VU metering. Relied on day after day by professional sound recordists the world over, the PM-1 provides the complete solution to any location recording situation - without breaking the budget.



"The TL Audio 4/2 is a highly proficient performer...this mixer will undoubtedly merit serious consideration by anyone involved in the business of mobile sound acquisition"

Audio Media

SPECIFICATIONS

Inputs

Four channels, via combined 3 pin XLR / jack socket with 20dB pad on jack inputs
Floating transformer isolation
XLR inputs suitable for balanced or unbalanced mics and line inputs requiring +10dB to +60dB of gain
Jack inputs suitable for balanced or unbalanced microphones and line inputs requiring -10dB to +50dB of gain
Individually switchable 48V phantom power and 12 volt "T" power
Switchable high pass filters @ 12dB per octave, -3dB @ 75Hz or 150Hz

Maximum Gain

80dB, channel and output level controls at maximum

Sensitivity

250uV, gain 60dB, channel level at maximum, output level at 0dB

Maximum Input level

Microphone @ +10dB gain: +6dBu (1.55V rms)
Line level @ -10dB overall gain : +26dBu (15.5V rms)

Noise

-127dBu EIN (equivalent input noise) @ 60dB gain, 200 ohm
source impedance, 20Hz to 20kHz (XLR input)

Frequency Response

20 Hz to 20kHz, +0, -1dB (XLR input)

Crosstalk

-80dB, channel to channel @ 1kHz
-65dB, channel to channel @ 15kHz

Stereo Operation

Channel 1+2 and 3+4 switchable for stereo, with ganged level control and pan control converted to balance
Separate stereo switch to gang master (output) level controls

Phase Reverse

Switchable on channels 2 and 4

Limiters

Switchable limiters with stereo link switch
Dual LEDs, colour matched to output level controls, show when gain reduction occurs
Attack time 1 msec, release time 0.1 sec
Threshold +8dBu (PPM 6)

Outputs

Electronically balanced on 3 pin XLR connectors, duplicated on 10 pin Hirose multiway connector.
Maximum level +20 dBu
-30 dB pad switch to match output to low level inputs
Unbalanced stereo output via 1/4" jack
Unbalanced mono output via 1/4" jack

Metering

Dual PPM meters, calibrated to PPM4 = 0dBu on balanced output, or dual VU meters calibrated to 0VU = +4dBu on balanced outputs
Nominal levels internally adjustable +/- 10dB
PPM meters available with either BBC or EBU type scales
On-off-momentary illumination switch
Test switch indicates battery voltage on right meter

Oscillator

Continuous 1kHz tone into both output channels, or 1kHz to left channel and alternating 1kHz / 10kHz to right channel for identification
Level adjustment by preset through rear panel

Monitoring

Balanced tape returns via multiway connector, plus unbalanced returns on 1/4" jack
Gain trim controls adjusted through side panel
Switch to select direct outputs or tape returns to monitor circuit
Matrix to decode M-S to stereo, and to check phase and mono compatibility
Input channels available individually for PFL
Level control & 1/4" jack output suitable for high or low impedance headphones

Power Supply

External DC supply, +12V to +24V @ 200mA, or internal alkaline or rechargeable batteries. Batteries may be recharged from external supply whilst mixer is in use
Battery operation down to 9V combined voltage
Typical battery life with dynamic microphones 12 hours

Dimensions

315mm wide X 180mm deep x 58mm high overall, all controls/connectors recessed

Weight

2.8Kg including batteries

Options

CC-1 carry case
PSU-1 external mains power supply / battery charger

Due to a policy of continuous development, the above specifications are subject to change without notice. E&OE

"This mixer will undoubtedly merit serious consideration by anyone in the business of mobile sound"

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