

MixPre Field Preamp and Mixer



Description

The MixPre from Sound Devices is a studio-quality two-channel, portable, stereo microphone preamplifier/mixer. With its pan switches, built in slate microphone, 1 kHz tone oscillator, and headphone monitoring, the MixPre is a flexible, portable mixer for video and film applications. The MixPre's impressive audio performance and comprehensive features make it ideal for the front end of any studio or field production audio system. Radio, television, and film production engineers value the compact size and ability to withstand extremes in the field. The MixPre allows no-compromise performance for any application.

Features

High Performance Microphone Inputs

- Maximum of 66 dB of gain per input.
- Premium Lundahl input transformers.
- Sealed, conductive plastic potentiometers.
- 48V or 15V phantom power.
- High-pass filters, 80 Hz or 160 Hz.
- Input panning to Left, Center, or Right outputs.

Audio Performance

- Dynamic range exceeding 110 dB.
- 10 Hz to 50 kHz audio bandwidth.
- Exceptionally low distortion characteristics.
- Discrete 6-transistor balanced output drivers.

Headphone Monitoring

- Monitoring of program audio or external stereo tape return audio.

Level Metering

- Sunlight-readable, seven segment GaN LED output meters.

Audio Limiters

- "Unclippable" input peak limiters.
- Dual mono or linked stereo limiter operation.

Flexible Powering

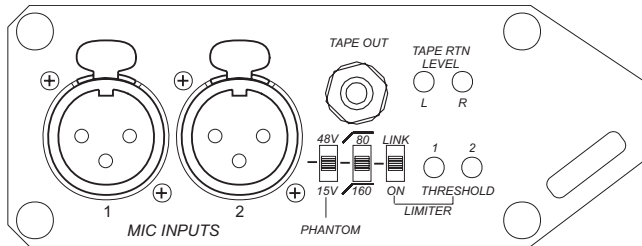
- Internal battery-power from two AA.
- 5 to 14 VDC external power input.

Trouble Free Design

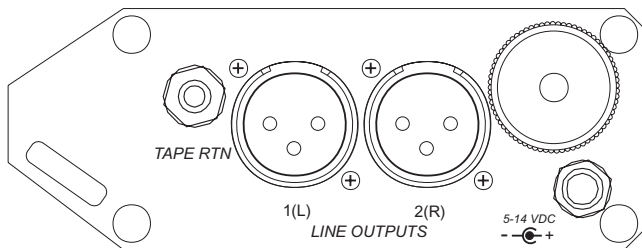
- High strength, extruded aluminum chassis.
- All-metal connectors.
- Free from "Pin 1" grounding problems.
- RF filtering on all inputs and outputs.

Tone Oscillator and Slate Microphone

MixPre



Input Panel



Output Panel

Specifications

Gain:

Mic Input to Output, per channel, continuously variable

Output	Gain Range
Line	-∞ – 66 dB
Tape	-∞ – 56 dB

Frequency Response:

20 Hz - 30 kHz, +0.2, -0.5 dB
 -1 dB at 5 Hz, 50 kHz
 (relative to 1 kHz level with 150 ohm source, gain controls set at 50%)

Equivalent Input Noise:

-126 dBu (-128 dBV) maximum
 (150 ohm source, flat weighting, 22 - 22 kHz bandwidth,
 gain control set at 50% or higher, phantom power off)

Input Clipping Level:

-10 dBu minimum

Output Clipping Level:

Line

+22 dBu minimum with 100k ohm load
 +20 dBu minimum with 600 ohm load

Tape

+11 dBu (2.75 V RMS) minimum with 100k ohm load

Dynamic Range:

110 dB minimum

THD + Noise:

0.05% maximum

(from 50 Hz to 22 kHz @ +4 dBu output level)

Common Mode Rejection Ratio:

100 dB minimum at 80 Hz

60 dB minimum at 10 kHz

Inputs:

Transformer-balanced, 2k ohm input impedance

Outputs:

XLR

Active, impedance-balanced, 120 ohm output impedance

Tape (3.5 mm)

Unbalanced, tip-left, ring-right, sleeve-ground, 2.4k ohm output impedance

High Pass Filters:

80 Hz or 160 Hz (switch selectable), 6 dB per octave

Phantom Power:

15 V through 680 ohm resistors or 48 V through

6.8k resistors (switch selectable)

Limiters:

Thresholds independently adjustable from

+6 dBu to +18 dBu

10:1 limiting ratio

5 mS attack time, 100 mS release time

Amber/Red LED indicates limiting/clipping

Dual mono or stereo linked

Internal Voltage Rails:

+15 V and -15 V, regulated

Metering:

7 segment GaN (Gallium Nitride) meter, peak responding

Power:

Internal

2 AA alkaline batteries, 6 hours life typical, no phantom power

External

5 - 14 VDC via threaded coaxial connector Pin positive,
 sleeve negative

Optional Accessory:

CS-1 Compact Production Case

XL-15 XLR to XLR Cable with 15 dB Pad

XL-40 XLR to XLR Cable with 40 dB Switched Pad

XL-TP Phantom to T-Power Adapter



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