

MP-2 Two-Channel Microphone Preamplifier



Description

The MP-2 from Sound Devices is a studio-quality two-channel, portable, stereo microphone preamplifier. With its impressive audio performance and comprehensive list of features including headphone monitoring, metering and M/S stereo matrix, the MP-2 is a flexible front end device for professional studio and field applications. Studio, location, and live music engineers value the compact size and ability to withstand extremes in the field. The MP-2 combines rugged mechanical and electronic construction, compact size, and high-quality components. The MP-2 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.

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.
- Two-color LEDs per input channel indicate clipping and limiter activity.

M/S Stereo Matrix

- MS stereo decoder assigned to headphones, or headphones and outputs.

Audio Limiters

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

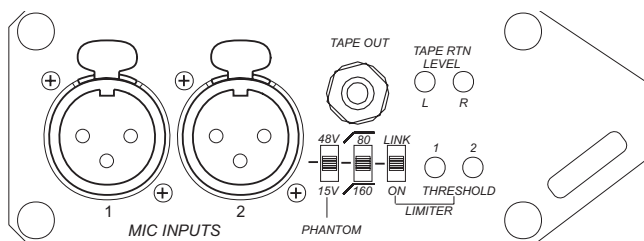
Flexible Powering

- Internal battery-power from two AA.
- 5 to 14 VDC external power input.
- Power LED indicates low battery power.

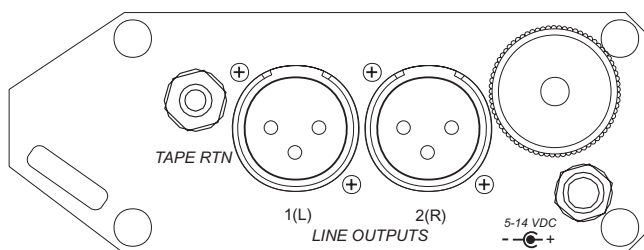
Trouble Free Design

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

MP-2



Input Panel



Output Panel

Specifications

Gain:

Mic Input to Output, per channel, continuously variable

Output	Gain Range
Line	16 – 66 dB
Tape	6 – 56 dB

Frequency Response

20 Hz - 30 kHz, +0.1, -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:

+4 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
(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 -10 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), peak responding

Power:

Internal

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

External

5 - 14 VDC via threaded coaxial connector

Power LED:

Green indicates power and good battery.

Red indicates power and low battery. LED turns red when approximately 1 hour of battery life remain (with phantom power off).

Green with external DC power.

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



SOUND DEVICES

Sound Devices, LLC

300 Wengel Drive, P.O. Box 576
Reedsburg, Wisconsin 53959 USA

tel: 608-524-0625 fax: 608-524-0655

www.sounddevices.com