

302

Compact Production Mixer



GENERAL DESCRIPTION

The 302 from Sound Devices is a compact audio mixer designed for a wide range of audio-for-video applications. Its three full-featured microphone inputs, informative level metering, and flexible headphone monitoring provide complete control

of audio sources. The 302 accepts a wide range of audio sources and provides phantom (48 or 12 V) or T-power — selectable per channel.

The 302 is the smallest and lightest audio mixer in its class. Powered from three-AA batteries, the 302 can

operate for a full production day on internal cells (without phantom). Its durable mechanical construction and field-tested design will handle the most punishing field environments.

KEY FEATURES

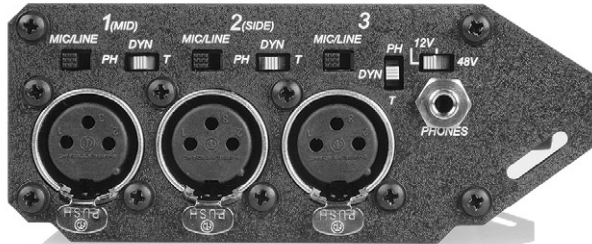
- Three transformer-balanced mic or line level inputs
- Lundahl input transformers for excellent RF and signal handling
- Phantom (48 V or 12 V) or T-power selected per input
- Limiters on inputs and outputs (outputs software-controlled)
- MS stereo matrix on input channels 1 and 2
- Two-position high-pass filter, 80 Hz or 160 Hz @ 12 dB/octave
- Output level adjusted from line to mic level, controlled in setup menu
- 40-segment, sunlight viewable LED output meter, software controlled
- Slate microphone and tone oscillator
- Headphone monitoring of stereo program, mono program, return feed, PFL, or MS stereo
- Channel 4/5 option when more inputs are needed
- Software-controlled User Setups
- Easy access battery tube
- Powered from three-AA batteries or external 5 - 18 VDC

SOUND  DEVICES

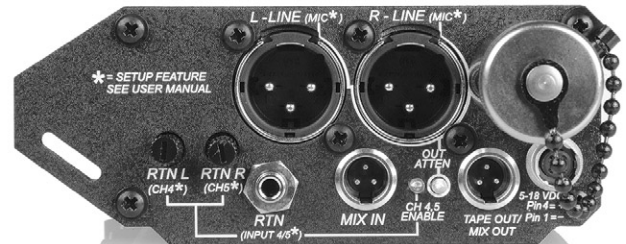
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Compact Production Mixer



Input Panel



Output Panel

KEY SPECIFICATIONS

Maximum Gain, typical (Trim, Fader, Master, Phones RTN fully up):

	XLR Input Mic Setting	XLR Input Line Setting	RTN
XLR Output @ factory Line setting	75 dB	35 dB	-
XLR Output attenuated	0 - 16 dB 2 dB steps	40 to 56 dB, 2 dB steps	-
Tape Output TA3-type	61 dB	21 dB	-
Headphones, 1/4-in and 1/8-in	95 dB	55 dB	30 dB

Frequency Response:

20 Hz - 30 kHz, +0.2, -0.5 dB,
-1 dB @ 5 Hz and 50 kHz typical

Equivalent Input Noise:

-126 dBu (-128 dBV) maximum (22 Hz - 22 kHz bandwidth, flat filter, trim control fully up)

Input Clipping Level:

0 dBu minimum (trim control fully down)

Line Output Clipping Level (1% THD):

20 dBu minimum
18 dBu minimum with 600 ohm load

Dynamic Range:

115 dB minimum (trim fully down)

THD + Noise:

0.007% typical (1 kHz, +4 dBu at Line out)
0.009 max (50 Hz to 20 kHz, +18 dBu at Line out, fader fully up)

Output Noise:

-100 dBu (-102 dBV) maximum (22 Hz - 22 kHz bandwidth, flat filter, master gain fully up, faders fully down)

L/R Gain Matching, Mic In to Line Out:

+/- 0.1 dB

High-Pass Filters:

Switchable 80 Hz or 160 Hz, 12 dB/oct

Mic Powering (each mic selectable):

Dynamic (no power applied),
12 V Phantom - through 680 ohm resistors, 10 mA per mic available,
48 V Phantom - through 6.8k resistors, 10 mA per mic available,
12 V T-Power - through 180 ohm resistors, 10 mA per mic available

Input Limiters:

+18 dBu threshold, 20:1 limiting ratio, 1 mS attack time, 200 mS release time.

Temperature:

Operating: -20°C to 60°C, 0 to 95% relative humidity; (non-condensing)
Storage: -40°C to 85°C

Output Limiters:

Affects the outputs of the mixer.
Threshold selectable from +4 dBu to +20 dBu,
1 dB steps, 20:1 limiting ratio, 1 mS attack time, 200 mS release time

Power supply:

Internal ±16 V (bi-polar) regulated audio rails, 2.4 - 6 V range internal batteries,
Isolated (floating) external DC input jack, 5-18 V
Locking 4-pin Hirose connector, pin-4 = (+), pin-1 = (-), use Hirose #HR10-7P-4P
(DigiKey# HR100-ND) for locking mating DC connector

Metering:

40-segment, sunlight-viewable
Selectable peak, VU, or peak (with or without peak hold) + VU ballistics

Weight:

0.85 kg, (1.8 lbs) unpackaged with three alkaline AA batteries

Dimensions:

47 mm x 214 mm x 114 mm (H x W x D)
1.8" x 8.4" x 4.5"

