SD-20M
4-Track Recorder for Installation

The SD-20M is a simple-to-use solid-state recorder at a breakthrough price. The 1-U rackmount includes a pair of microphone preamps with phantom power for direct microphone recording. Both the mic inputs and line inputs can be recorded simultaneously in four-track mode. The dual recording mode captures a copy of your audio at a lower level, as insurance against distorted takes.

The SD-20M includes a battery backup system: AA batteries can keep recording for hours in case of power loss. A wired remote or footswitch can be attached to control recording and playback. Variable speed playback allows the playback to be changed without affecting the pitch.

Designed for installations like schools, house of worship, and conferences, the SD-20M is a flexible, affordable solution for long-form recording.

Main Features

- Four-track solid-state recorder
- Stereo or four-track recording (two mic/line inputs + two line inputs)
- Two microphone inputs on XLR/jack combo jacks, compatible with +4 dBu line level, switchable phantom power (+48 V)
- Two RCA line inputs on rear side for tracks 3-4 (compatible with -10 dBV line level)
- Two recording formats supported:
  - WAV/BWF: 44.1–96 kHz, 16/24 bit
  - MP3: 32–320 Kbit/s
- Simple user interface
- Low-cut filter with three levels (40/80/120 Hz)
- File divide feature
- Dual recording function records a copy of your audio at a lower level for a distortion-proof safety track
- Variable speed playback changes speed without changing the pitch (0.5 times to 1.5 times in 0.1 increments)
- Auto-recording function to automatically start recording based on input level
- RCA stereo line outputs
- Standard stereo headphones output
- Remote jack for wired or footswitch control
- AA battery backup – keeps recording even after power loss
- SDXC media slot supports cards up to 128 GB
- Compact 1U rack-mountable chassis

Specifications

<table>
<thead>
<tr>
<th>Ratings</th>
<th>SD card (64 MB–2 GB)</th>
<th>SDHC card (4 GB–32 GB)</th>
<th>SDXC card (48 GB–128GB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording media</td>
<td>BWF: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 16/24 bits</td>
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<tr>
<td>Recording/playback formats</td>
<td>WAV: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 16/24 bits</td>
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<tr>
<td>Number of channels</td>
<td>4 channels (stereo × 2)</td>
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</tbody>
</table>

Analogue audio inputs and outputs

Mic/Line input 1/2 (balanced)
- Combo jacks: XLR-3-31 (1: GND, 2: HOT, 3: COLD)
- 6.3-mm standard TRS jack (Tip: HOT, Ring: COLD, Sleeve: GND)

Set to MIC (phantom power supported)
- Input impedance: 2.7 kΩ
- Maximum input level: 0 dBu (Gain: LOW)
- Minimum input level: -67 dBu (Gain: HIGH)

Set to LINE
- Input impedance: 10 kΩ or higher
- Nominal input level: +4 dBu
- Maximum input level: +20 dBu
- Minimum input level: -12 dBu

Line inputs 3/L and 4/R (unbalanced)
- Input impedance: 10 kΩ or higher
- Nominal input level: -10 dBV
- Maximum input level: +6 dBV
- Minimum input level: -26 dBV

OUTPUT jacks
- Nominal output level: -10 dBV
- Maximum output level: +6 dBV
- Output impedance: 200 Ω
- Headphones output: 6.3-mm standard stereo jack
- Maximum output power: 20 mW + 20 mW (32 Ω load, 0.1 % distortion)

Control input/output
- Remote control connector: 2.5-mm TRS micro jack

Audio performance

Frequency response
- 20 – 20 kHz ±1/-3 dB
- (Input 1-2 to output, Fs 44.1/48 kHz, JEITA*)
- 20 Hz – 40 kHz ±1/-3 dB
- (Input 1-2 to output, Fs 96 kHz, JEITA*)

Distortion
- 0.01 % or less
- (Input 1-2 to output, Fs 44.1/48/96 kHz, JEITA*)

S/N ratio
- 100 dB or more
- (Input 1-2 to output, Fs 44.1/48/96 kHz, JEITA*)

*Based on JEITA standard CP-2150

Power supply and other specifications

Power supply
- Dedicated AC adapter (TASCAM PS-P1220E)
- 4 AA batteries (alkaline, NIMH or lithium)

Power consumption
- 5 W (maximum)

Input current
- 1 A (maximum)

Dimensions (W × H × D)
- 483 mm × 45 mm × 300 mm

Weight
- 2.8 kg (including batteries)
- 2.7 kg (excluding batteries)

Operating temperature range
- 5–35 °C

Approximate battery operation time in hours:minutes (continuous operation)

Use conditions | A / N / L**
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1-2 channels/line input, recording 2 channels, 44.1kHz/16-bit WAV | 2:45 / 3:45 / 7:00
1-2 channels/mic input, phantom power used, recording 2 channels, 44.1kHz/16-bit WAV | 1:45 / 2:30 / 5:15
1-2 channels/mic input, phantom power off, line input on channels 3-4, recording 4 channels, 44.1kHz/16-bit WAV | 1:15 / 1:45 / 5:00

**A: Alkaline batteries (EnVolla), N: NIMH batteries (eneloop), L: lithium batteries (Energizer Ultimate Lithium)

Design and specifications subject to change without notice.

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