



## 12-channel digitally controlled microphone preamplifier with AVB, ADAT & MADI

The RME 12Mic features twelve microphone and line level inputs with digital, no-compromise, studio-quality conversion; remote controllable gains; integrated MADI and AVB connectivity; plus a multitude of additional functionality, designed to make it the perfect companion for any professional recording setup.

The PAD-free microphone input stages have a 75 dB gain range and accept signals of up to +18 dBu. On the converter side, the 12Mic shines with an outstanding signal-to-noise ratio on all channels. All twelve front-facing XLR connections accept microphone and line level signals, whilst the first four connections also accept TRS connectors, with switchable high impedance (Hi-Z) for instruments.

Both coaxial and optical (via an SFP module) MADI I/O is available for independent or redundant operation, and can be used for daisy chaining, merging and converting MADI signals at incredibly low latency. Three optical ADAT outputs provide up to 24 channels of audio at single speed (for example, a combination of microphone inputs, MADI signals and AVB signals), or 12 output channels at 96 kHz sampling rate, ensuring compatibility with a wide range of audio interfaces.

### Overview of the 12Mic most important features:

- 2x RJ45 1 GigE AVB, 8 streams (each up to 16 ch.) per direction with redundancy
- Additional CRF media clock stream I/O
- MADI input redundancy (requires optional SFP module)
- Internal routing of up to 268x282 channels
- 19" enclosure 1 unit height
- 1,54" full color display with control knob and four buttons for convenient, direct access to all features
- SteadyClock FS - ultra-low jitter digital clock technology
- Remote control via HTTP, JSON, IEEE 1722.1 ATDECC, MIDI over MADI
- internal PSU, optional 12V DC redundant power supply
- USB 2.0 (for remote control and firmware updates)
- DC-coupled outputs

### Connectivity

- 8 x XLR Mic/Line
- 4 x XLR/TRS Mic/Inst/Line
- 1 x Phones Output
- 2 x MADI I/O (via optional available optical SFP and coaxial BNC, up to 128 Ch.)
- 2x RJ45 1 GigE AVB, 8 streams
- Word Clock I/O (BNC)
- 3x ADAT out
- USB 2.0 (for remote control)

**XLR In 1-12:**

- Input: XLR, electronically balanced
- Input impedance: 3.4 kOhm
- Gain range: 75 dB, 1 dB steps
- Resolution AD: 24 bit
- Frequency response
  - @ 44.1 kHz, -0.1 dB: 8 Hz – 20.8 kHz
  - @ 96 kHz, -0.5 dB: 4 Hz – 29.2 kHz
  - @ 192 kHz, -1 dB: 3 Hz – 43.7 kHz
- THD @ 30 dB gain: < -110 dB, < 0.00032 %
- THD+N @ 30 dB gain: < -104 dB, < 0.00063 %
- Channel separation: > 110 dB
- Signal to Noise ratio (SNR): > 117 dB RMS unweighted, > 120 dB(A)
- Equivalent Input Noise (EIN), 30 dB Gain: 123 dB RMS unweighted, 125.5 dB(A) @ 150 Ohm
- Maximum input level, Gain 0 dB: +18 dBu
- Maximum input level, Gain 75 dB: -57 dBu

**TRS In 1-4:**

As above, but:

- Signal to Noise ratio (SNR): 115 dB RMS unweighted, 118 dBA
- TRS jack, balanced
- Gain range: 42 dB, 1 dB steps
- Maximum input level, Gain 8 dB: +20 dBu
- Maximum input level, Gain 50 dB: -22 dBu
- Switchable high impedance (unbalanced TS): 1 MOhm

**MADI:**

- Coaxial via BNC, 75 Ohm, according to AES10-1991
- Optical via optional SFP module
- 62.5/125 and 50/125 compatible
- Accepts 56 channel and 64 channel mode, plus 96k Frame
- Single Speed: up to 64 channels 24 bit 48 kHz
- Double Speed: up to 32 channels 24 bit 96 kHz
- Quad Speed: up to 16 channels 24 bit 192 kHz

**Word Clock:**

- 75 ohm Word Clock BNC connectivity
- Support 44.1kHz - 192kHz
- Supports full or single speed operation
- SteadyClock FS extracts low jitter clock signal
- Intelligent Clock Control switches clock source seamlessly

**ADAT:**

- 3 x TOSLINK

**Phones 1/2:**

- Resolution: 24 Bit
- Noise (DR): 115 dB RMS unweighted, 118 dBA
- Frequency response @ 44.1 kHz, -0.5 dB: 9 Hz – 22kHz
- Frequency response @ 96 kHz, -0.5 dB: 9 Hz – 45kHz
- Frequency response @ 192 kHz, -1 dB: 8 Hz - 75kHz
- THD+N: < -100 dB, < 0.001 %
- Channel separation: > 110 dB
- Output: 6.3 mm TRS stereo (unbalanced) or mono (balanced) jack
- Maximum output level at 0 dBFS: +13 dBu (unbalanced), +19 dBu (balanced)

**MADI:**

- Coaxial via BNC, 75 Ohm, according to AES10-1991
- Optical via optional SFP module
- 62.5/125 and 50/125 compatible
- Supports 56 channel and 64 channel mode, 96k Frame
- Single Speed: up to 64 channels 24 bit 48 kHz per port
- Double Speed: up to 32 channels 24 bit 96 kHz per port
- Quad Speed: up to 16 channels 24 bit 192 kHz per port

**Word Clock:**

- 75 ohm Word Clock BNC connectivity
- Support 44.1 kHz - 192kHz
- Supports full or single speed operation



<b>EAN:</b>	42 6012336 329 1
<b>Weight:</b>	2.8 kg ( 6,2 lbs)
<b>Dimensions:</b>	(WxHxD): 440 x 44 x 243 mm (17.3 x 1.7 x 9.6 inches)
<b>Package dimensions</b>	(WxHxD): 560 x 315 x 115 mm (22,1" x 12.4" x 4.5")
<b>Package Contents:</b>	<ul style="list-style-type: none"> <li>- 12Mic</li> <li>- two rack mount brackets</li> <li>- four screws for rack mount brackets</li> <li>- one power cord</li> <li>- one Cat5e network cable</li> <li>- printed manual</li> </ul>

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