

OctaMic II

8-channel MicPreamp and AES/ADAT A/D converter



Overview

The OctaMic II provides 8-channel 192 kHz / 24 bit AD conversion with eight hi-class microphone and line pre-amplification channels, featuring a combination of sophisticated components and approved RME technology.

Lowest distortion, excellent signal to noise ratio and perfectly linear frequency response transmit and amplify the microphone signals truly unchanged.

The OctaMic II includes some significant enhancements compared to the OctaMic:

- The balanced TRS inputs of the Neutrik Combo XLR jacks are phantom power-free and can be operated as real line inputs too. The improved design of the input circuits allows for a maximum input level of +21 dBu with a convenient gain range from 6 dB up to 60 dB.
- Improved signal to noise ratio (SNR) ADC 107.5 dB
- Improved THD, especially at higher gains
- Optimised heat dissipation by a new and larger housing with improved convection
- Internal wide range power supply with line filter, insensitive to voltage fluctuations
- Super-stable, short circuit proof 48 V phantom power

Features

OctaMic II offers 8 balanced XLR mic / line inputs via Neutrik XLR/TRS combo jacks. Each channel contains switches for 48V phantom power, a low cut filter and phase reversal. Amplification can be set between 6 and 60 dB. LEDs for signal, clip, and activated phantom power give a complete overview on the unit's status. When the special Clip Hold mode is activated, any detected clip-state will cause the corresponding LED to flash once per second. With this, the user gets a long-term peak detection, and no longer needs to constantly watch the LEDs. At the same time momentary overloads are still displayed correctly.

Frontside switches include power on/off and output level, for a choice of -10 dBV, +4 dBu or Hi Gain (+19 dBu) as reference level. This unusual feature offers two advantages. First, the reference level can be easily switched to match any of RME's current interface devices, from HDSP 9632 through Multiface up to the renowned ADI-8 series converters. Second, the Signal to Noise ratio is optimized, and the Clip-LED will exactly match the ones of the ADI-8 (2 dB below 0 dBFS).

The balanced line level output signal is available at the back of the unit via 8 stereo TRS jacks. The specially developed, internal hi-performance switch mode power supply lets the OctaMic II operate in the range of 100V to 240V AC. It is short-circuit-proof, has an integrated line-filter, is fully regulated against voltage fluctuations, and suppresses mains interference. .

Connectivity

- 8 x Mic / Line Preamp Input (XLR/TRS Combo)
- 8 x Line Output (TRS balanced)
- 8 x AD-converter (up to 192 kHz)
- 2 x ADAT Output (S/MUX, up to 96 kHz)
- 4 x AES/EBU Output (D-sub, up to 192 kHz)
- 1 x AES/SPDIF Sync Input
- Phase, Low Cut and Phantom power per channel

Features

- SteadyClock™
- Clip Hold Memory
- cascadable

AD Conversion

The 8-channel AD-conversion of the OctaMic II operates at up to 192 kHz. The digitized signal is available simultaneously at the double ADAT output (S/MUX, up to 96 kHz), and at a DB-25 connector (4 AES/EBU outputs, up to 192 kHz). The digital part can be clocked internally (master) and externally via word clock, AES/EBU and SPDIF.

RME's outstanding SteadyClock(TM) ensures perfect AD-conversion, as jitter on the external sync-sources is nearly completely removed. All settings are done via DIP-switches on the back of the OctaMic D. Analog outputs and both digital outputs operate fully simultaneously. The choice of reference level affects the analog outputs only, the signal/clip indication and the AD-conversion will react only to the Gain-pots.

Tech Specs

8 balanced XLR/TRS mic/line inputs - 54 dB gain range

Input impedance: XLR 2 kOhm, TRS 5 kOhm

Analog input level from -40 dBu up to +21 dBu

Max Output Level: +21 dBu

Output impedance: 75 Ohm

Output level switchable Hi Gain / +4 dBu / -10 dBV

Signal to noise ratio (SNR): 129 dB EIN @ 150 Ohm

THD: < 0.0005 % @ 30 dB Gain

Large frequency range (200 kHz) with special EMI input filtering

Frequency response -0.5 dB: 5 Hz - 200 kHz

Hi-pass filter: 80 Hz, 18 dB/oct.

Line Out: 1/4" TRS (6.3 mm stereo jack), servo-balanced

Phantom power: +48 Volt in every channel

Internal wide range switching power supply 100-240 Volt AC

Unbeatable price/performance ratio!

AD conversion

SNR: >110 dB(A)

Supported sample rates: 28 kHz - 200 kHz

THD: < 0.0003 %, < -110 dB

Sync Sources: AES/EBU (also SPDIF coaxial), wordclock, internal

SteadyClock(TM) ensures best sound quality even with jittery external clocks



Worldwide Distribution

audio ag

Am Pfanderling 60 . 85778 Haimhausen . Germany
Tel.: +49-08133-91810 Fax: +49-08133-9166

www.rme-audio.de

2 / 2