

MZD 8000

Mikrophone | MKH 8000 Series

Cat. No. 502097

General Description

The fantastic sound of the MKH 8000 series can now be converted to digital directly at the microphone head, ensuring a natural sound without any loss of quality. The compact digital module is simply screwed onto the microphone head in place of the XLR module, turning the audio signal of the MKH 8020 (omni-directional), MKH 8040 (cardioid) and MKH 8050 (super-cardioid) into a digital one. The new digital module ensures that the warm, natural, yet fantastically clear and powerful sound of the MKH 8000 series is maintained in full quality along the entire signal chain. In contrast to conventional digitization, which uses a separate analogue/digital converter at some stage in the chain, the Sennheiser MZD 8000 digital module eliminates cable losses and, most importantly, features a converter and surrounding circuitry that have been optimally matched to the microphone.

Like all signal-carrying components in the 8000 series, the module is designed with two channels and converts the microphone signal according to the AES 42 standard. The microphones can be synchronized by any digital system. In addition to the A/D converter (24-bit, sampling rate up to 192 kHz), the digital module contains a highly integrated DSP unit. With the aid of dedicated PC control software and an AES 42 interface, the microphone allows settings such as the low-cut filter, attenuation and limiter to be remote-controlled. The required phantom power for microphones is provided by an AES 42 interface, e.g. Neumann's DMI.

Technical Data

Frequency response	from 10 kHz to 80 kHz
A/D conversion	24 Bit/44,1 to 192 kHz
Delta-Sigma Sensitivity (free field, no load, 94 dB SPL) with MKH 8020	-31 dBFS
Total harmonic distortion at -1 dBFS	< -100 dBFS
Inherent self-noise (mono mode, 40 ohms)	< -120 dBFS
Input amplitude for -0.5 dBFS at 0 dB attenuation	1.1 V _{rms} (997 Hz sine wave)
Group delay	22/19/15 samples
.....	single/double/quad speed
Frequency accuracy	
in asynchronous operation	+/- 25 ppm
Pull-in range in	
synchronous operation.....	min. +/- 100 ppm
Power supply	AES 42-phantom power (10 V DPP)
Power consumption	< 160 mA
Operating voltage range	from 7 V to 10,5 V
Operating temperature range	from -10 °C to +60 °C
Diameter	19 mm
Length	96 mm
Weight	approx. 65 g



Features

- 2-channel 24 Bit-AD-converter, dynamic range 115 dB
- Studio grade preamp and converter
- Sampling rate 44,1 kHz, 48kHz, 88,2 kHz, 96 kHz, 176,4kHz and 192 kHz
- Remote controlled DSP functions like low cut filter, attenuation and limiter
- Digital output in AES 42 format
- External synchronisation via AES 42, Mode 2
- Colour: Nextel® black, non reflecting, matching to MKH 8000 series
- Delivery Includes: Digital module MZD 8000
User manual

Recommended Accessories

- Extension tube 15 cm (5.91") MZE 8015 Cat. No. 502315
- Extension tube 30 cm (11.84") MZE 8060 Cat. No. 502433
- Extension tube 60 cm (23.62") MZE 8060 Cat. No. 502316
- Extension tube 120 cm (47.24") MZE 8120 Cat. No. 502317
- Bar connector mono MZGE 8000 Cat. No. 502324
- Bar connector stereo MZGE 8002 Cat. No. 502325
- Vertical bar 30 cm (11.84") MZEF 8030 Cat. No. 502434
- Vertical bar 60 cm (23.62") MZEF 8060 Cat. No. 502318
- Vertical bar 120 cm (47.24") MZEF 8120 Cat. No. 502319
- Table stand MZT 8000 Cat. No. 502331
- Table stand MZT 8001 Cat. No. 502332
- Shock mount MZS 8000 Cat. No. 502330
- Mini clip MZQ 8001 Cat. No. 502329
- Microphone clip MZQ 8000 Cat. No. 502328
- Swivel joint MZG 8000 Cat. No. 502323
- Remote cable 3 m (3.28 ft) MZL 8003 Cat. No. 502326
- Remote cable 10 m (10.94 ft) MZL 8010 Cat. No. 502327
- Windshield MZW 8000 Cat. No. 502333
- Ceiling mount MZH 8000 Cat. No. 502435
- Floor stand MZFS 8000 Cat. No. 502322
- Digital module MZD 8000 Cat. No. 502097