Digital bidirectional handheld transmitter (Sennheiser Spectera SKM UHF)

Digital bidirectional handheld transmitter for wireless transmission of digital audio and control data via a single antenna within a 6 or 8 MHz RF channel – matching the wireless system described in the system description.

The handheld transmitter provides continuous interference monitoring for the RF channel without interrupting the audio signals. Interference or deterioration of connection quality is indicated via the proprietary software or the WebUI. In addition, permanent remote control and monitoring of audio settings, battery status, and RF channel quality parameters is possible via the software.

The handheld transmitter is made of robust metal and features a single-line OLED display that can show selected information during operation. The capsule interface is compatible with various Sennheiser and Neumann capsules and can additionally be equipped with a push button for extended functionalities.

The AD/DA converters of all connected mobile devices are synchronized via a shared word-clock signal. This also enables immersive on-air 3D audio recording and playback.

Technical Requirements:

Specifications:
RF channels: 1 (6 or 8 MHz)
Transmission scheme: Multicarrier, TDMA, TDD
Frequency range: UHF 470 – 608 MHz, 630 – 698 MHz
Audio connections / mobile devices: up to 128 per RF channel
RF output power: max. 50 mW
Encryption: AES-256
Audio frequency response: 20 Hz – 20 kHz (±1 dB)
High-pass filter: off / 30 / 60 / 80 / 100 / 120 Hz
Mic gain: –6 to 42 dB, in 1 dB steps
Battery operating time: up to 7 h

Connections, Displays & Controls:
1 x Sennheiser capsule interface
1 x Status LED
1 x OLED display
1 x Power button
1 x Function button

Physical Properties:
Length: 196 mm
Diameter: 40 mm (capsule interface), 33.3 mm (shaft)
Weight: approx. 197 g / 230 g (without / with battery, without capsule)
Material: Metal
Operating temperature: –10 °C to +50 °C
Relative humidity: 25 % – 95 %
Power supply: Li-ion battery BA 70

Handheld transmitter shall include a microphone clip.