



2000 IEM Series

SR 2050 IEM | Twin Stereo Transmitter



Rugged, reliable, and flexible – in short: professional. With the SR 2050, you can choose from 26 frequency banks with up to 32 channels. The channels can be user-programmed into six of the frequency banks. Switchable RF output power provides greatest artistic and technical freedom. A 5-band equalizer makes it possible to individually influence the audio output signal.

FEATURES

- Rackmount twin stereo transmitter in a full-metal housing with integrated power supply
- Easy and flexible wireless synchronization between transmitter and receiver via infrared
- Compatible with Sennheiser WSM control software for flexible frequency allocation
- 20 fixed frequency banks with up to 32 compatible presets in up to 75 MHz switching bandwidth and 6 user banks
- High RF output power depending on country-specific regulations
- Audio loop-out jacks for the monitoring transmitters

DELIVERY INCLUDES

- SR 2050 IEM stereo transmitter
- 2 rod antennas
- 3 mains cables (EU, UK, and US)
- 4 device feet
- quick guide
- safety guide
- manufacturer declaration sheet

PRODUCT VARIANTS

SR 2050XP IEM-Aw+	470 – 558 MHz	Art. no. 508636
SR 2050 IEM-Aw+	470 – 558 MHz	Art. no. 508644
SR 2050 IEM-Gw	558 – 626 MHz	Art. no. 503847
SR 2050XP IEM-Gw	558 – 626 MHz	Art. no. 504058
SR 2050XP IEM-Gw1	558 – 608 MHz	Art. no. 508626
SR 2050 IEM-GBw	606 – 678 MHz	Art. no. 504955
SR 2050 IEM-Bw	626 – 698 MHz	Art. no. 503851
SR 2050XP IEM-Bw	626 – 698 MHz	Art. no. 504059

ACCESSORIES

GA 3030 AM	antenna front mount kit	Art. no. 009950
AC 3200-II	antenna combiner	Art. no. 505497
A 1031-U	omni-directional broadband antenna	Art. no. 004645
A 2003-UHF	directional broadband antenna	Art. no. 003658
A 5000 CP	circularly polarized broadband antenna	Art. no. 500887



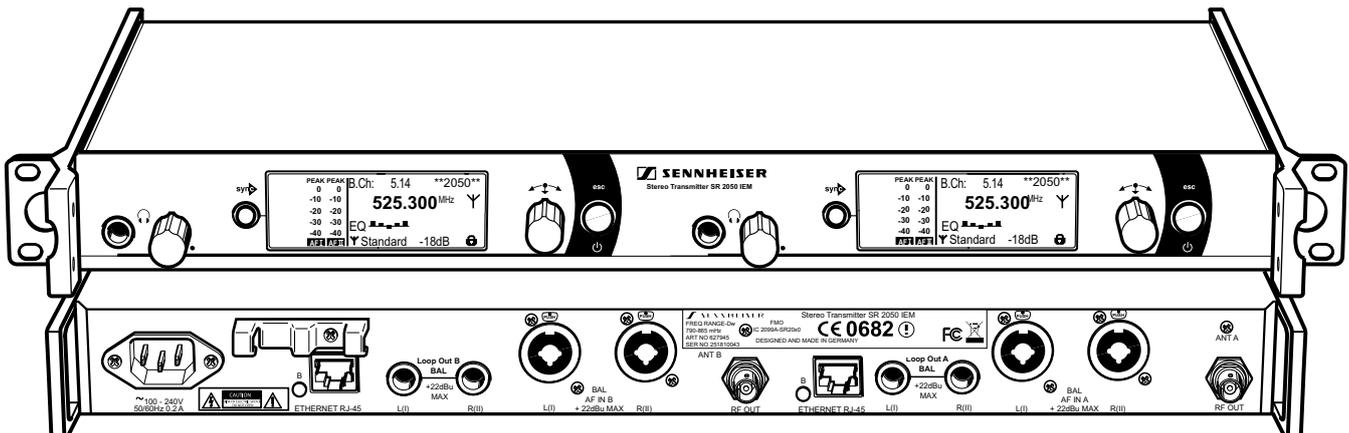
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SPECIFICATIONS

RF characteristics		AF characteristics	
Modulation	Wideband FM stereo (MPX pilot tone)	Compressor system	Sennheiser HDX
Frequency ranges	Aw+ 470 – 558 MHz Gw 558 – 626 MHz Gw1 558 – 608 MHz GBw 606 – 678 MHz Bw 626 – 698 MHz	AF frequency response	25 Hz to 15 kHz
Transmitting frequencies	Max. 3000 frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 32 factory-pre-set channels, no intermodulation 6 frequency banks with up to 32 programmable channels	AF input	2x XLR-3/¼" (6.3 mm) jack combo socket, electronically balanced
Switching bandwidth	up to 75 MHz	Max. input level	+22 dBu
Nominal/peak deviation	±24 kHz / ±48 kHz	Total harmonic distortion (THD)	<0.9 %
MPX pilot tone (frequency/deviation)	19 kHz/±5 kHz	Signal-to-noise ratio (at nominal load and peak deviation)	>90 dB
Frequency stability	±10 ppm	AF output	¼" (6.3 mm) stereo jack socket, balanced
Antenna output	BNC socket, 50 Ω	Overall device	
RF output power at 50 Ω	switchable: Low: 10 mW Standard: 30 mW High: 50 mW Maximum: 100 mW (XP versions only)	Temperature range	-10 °C to +55 °C (14 °F to 131 °F)
		Power supply	100 - 240 V AC
		Current consumption	0.2 A
		Dimensions	Approx. 217 x 483 x 43 mm (8.54" x 19.02" x 1.69")
		Weight	Approx. 2,700 g (5.95 lbs)

PRODUCT OVERVIEW AND CONNECTIONS





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ARCHITECT'S SPECIFICATION

The rack-mount dual channel stereo transmitter shall be for use with a companion receiver as part of a wireless RF monitoring system. Each channel of the stationary transmitter shall provide the following features and performance:

The transmitter shall operate within five UHF frequency ranges, with a switching bandwidth of up to 75 MHz: 470 – 558 MHz, 558 – 626 MHz, 558 – 608 MHz, 606 – 678 MHz, 626 – 698 MHz; transmitting frequencies shall be 3,000 per range and shall be tunable in 25 kHz steps. The transmitter shall feature 20 fixed frequency banks with up to 32 compatible frequency presets and 6 user banks with up to 32 user programmable frequencies.

The transmitter shall be menu-driven with a backlit LC display showing the current frequency, frequency bank and channel number, metering of AF level, transmission status, transmission power, equalizer setting, input sensitivity, and lock status. An auto-lock feature shall be provided to prevent settings from being accidentally altered.

The parameters of associated receivers shall be configurable in the transmitter menu and synchronized with the receivers via an integrated infrared interface.

Frequency stability shall be ± 10 ppm. RF output power at 50 Ω shall be switchable between 10 mW (low), 30 mW (standard), 50 mW (high) and 100 mW (Maximum, XP version only).

The stereo audio input shall utilize two discrete (left/right) electronically balanced $\frac{1}{4}$ " (6.3 mm) jack/XLR-3F combo sockets; the audio output shall utilize a balanced $\frac{1}{4}$ " (6.3 mm) jack socket; an audio loop output shall be provided utilizing two balanced $\frac{1}{4}$ " (6.3 mm) jack sockets. A headphone output with headphone volume control shall be provided and shall utilize a $\frac{1}{4}$ " (6.3 mm) stereo jack socket. The transmitter shall have an Ethernet port (RJ-45) for remote network-based monitoring and control using the Sennheiser Wireless System Manager software. One 50 Ω BNC-type input socket shall be provided for connecting the antenna.

Nominal/peak deviation shall be ± 24 kHz/ ± 48 kHz. The transmitter shall incorporate the Sennheiser HDX compander system and shall include a 19-kHz MPX pilot tone with a ± 5 kHz deviation. The audio frequency response shall range from 25 – 15,000 Hz. Maximum input level shall be +22 dBu. Total harmonic distortion (THD) at 1 mV and nominal deviation shall be < 0.9 %. Signal-to-noise ratio at nominal load and peak deviation shall be > 90 dB.

The following features and performance shall be provided to support both transmitter channels:

Power shall be supplied to the transmitters by the internal power supply with auto-switching mains voltage of 100 – 240 VAC at 50/60Hz. Current draw shall be maximum 0.2 A. The transmitter chassis shall be fabricated from metal and shall be capable of mounting in a standard 19" equipment rack without additional hardware; case dimensions shall be approximately 8.54" x 19.02" x 1.69" (217 x 483 x 43 mm). Weight shall be 102.29 oz (2900 grams). Operating conditions shall be ambient temperature +14°F to +131°F (-10°C to +55°C).

The stationary dual channel stereo transmitter shall be the Sennheiser SR 2050 IEM.