



evolution wireless G4

SKM 500 G4 | Handheld Transmitter



Powerful handheld transmitter with a lightweight black aluminum housing, increased bandwidth and transmission power, ready to take the world's biggest live stages. For evolution wireless G4 500 Series systems.

FEATURES

- Your choice of Sennheiser's renowned state-of-the-art e 935, e 945, e 965 capsules
- Easy and flexible wireless synchronization between transmitter and receiver via infrared
- Up to 32 compatible channels
- Up to 88 MHz bandwidth with 3520 selectable frequencies, fully tunable in a stable UHF range
- Ethernet connection for Wireless Systems Manager (WSM) control software for advanced frequency coordination in multi-channel setups
- High RF output power (up to 50 mW, adjustable in three steps 10/30/50) depending on country regulations

DELIVERY INCLUDES

- SKM 500 G4 handheld transmitter
- MZQ 1 microphone clamp
- 2 AA batteries
- pouch
- quick guide
- safety guide
- manufacturer declaration sheet

PRODUCT VARIANTS

Made in Germany

SKM 500 G4-K+	925 - 937.5 MHz	Art. no. 507782
SKM 500 G4-GBw	606 - 678 MHz	Art. no. 507783
SKM 500 G4-Gw	558 - 626 MHz	Art. no. 507784
SKM 500 G4-Bw	626 - 698 MHz	Art. no. 507785
SKM 500 G4-Cw	718 - 790 MHz	Art. no. 507786
SKM 500 G4-Dw	790 - 865 MHz	Art. no. 507787
SKM 500 G4-Aw+	470 - 558 MHz	Art. no. 508414

Assembled in USA

SKM 500 G4-AS	520 - 558 MHz	Art. no. 508121
SKM 500 G4-JB	806 - 810 MHz	Art. no. 508122
SKM 500 G4-Gw	558 - 626 MHz	Art. no. 508123
SKM 500 G4-Bw	626 - 698 MHz	Art. no. 508124
SKM 500 G4-Cw	718 - 790 MHz	Art. no. 508125
SKM 500 G4-Dw	790 - 865 MHz	Art. no. 508126
SKM 500 G4-Aw+	470 - 558 MHz	Art. no. 508435
SKM 500 G4-Gw1	558 - 608 MHz	Art. no. 508459



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ACCESSORIES

MMD 935	cardioid dynamic microphone head	Art. no. 502577
MMD 945	supercardioid dynamic microphone head	Art. no. 502579
MMK 965	condenser microphone head with switchable characteristics	Art. no. 502582
MD 9235 BK	cardioid dynamic microphone head, black	Art.-no. 502585
MD 9235 NI	cardioid dynamic microphone head, nickel	Art.-no. 502586
MD 9235 NI/BK	cardioid dynamic microphone head, nickel/black	Art.-no. 502591

Neumann KK 204	condenser cardioid microphone head, nickel	Art.-no. 008651
Neumann KK 204 BK	condenser cardioid microphone head, black	Art.-no. 008652
Neumann KK 205	condenser supercardioid microphone head, nickel	Art.-no. 008653
Neumann KK 205 BK	condenser supercardioid microphone head, black	Art.-no. 008654
BA 2015	rechargeable battery	Art. no. 009950
LA 2	charging adapter for L 2015 charger	Art. no. 503162
L 2015	charger	Art. no. 009828
KEN 2	identification rings	Art. no. 530195

SPECIFICATIONS

RF characteristics

Modulation	Wideband FM
Frequency ranges	Aw+: 470 - 558 MHz AS: 520 - 558 MHz Gw1: 558 - 608 MHz Gw: 558 - 626 MHz GBw: 606 - 678 MHz Bw: 526 - 698 MHz Cw: 718 - 790 MHz Dw: 790 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz
Transmission frequencies	Max. 3520 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
Switching bandwidth	up to 88 MHz
Nominal/peak deviation	± 24 kHz / ± 48 kHz
Frequency stability	$\leq \pm 15$ ppm
RF output power at 50 Ω	switchable: Low: typ. 10 mW Standard: typ. 30 mW High: typ. 50 mW
Pilot tone squelch	Can be switched off

AF characteristics

Compander system	Sennheiser HDX
AF frequency response	80 - 18,000 Hz
Signal-to-noise ratio (1 mV, peak deviation)	≥ 115 dBA
Total harmonic distortion (THD)	≤ 0.9 %
Setting range for input sensitivity	48 dB, adjustable in 6 dB steps

Overall device

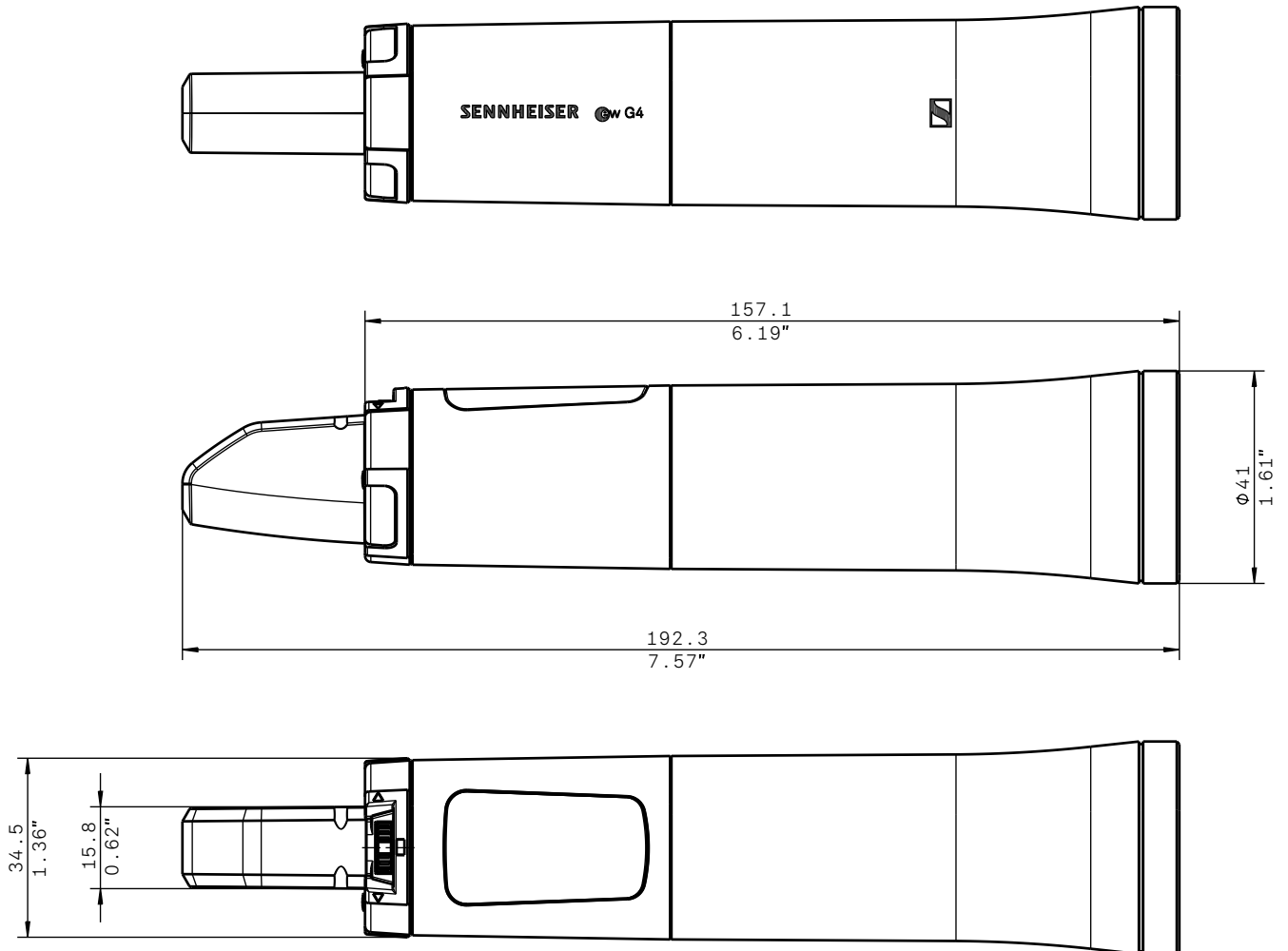
Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V or BA 2015 accupack
Nominal voltage	3 V battery / 2.4 V rechargeable battery
Current consumption	at nominal voltage: typ. 180 mA with transmitter switched off: ≤ 25 μ A
Operating time	Typically 8 h
Dimensions	Approx. $\varnothing$ 50 x 265 mm
Weight (incl. batteries)	approx. 450 g



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DIMENSIONS





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ARCHITECT'S SPECIFICATION

The handheld vocal radio microphone shall be for use with a companion receiver as part of a wireless RF transmission system.

The radio microphone shall operate within ten UHF frequency ranges, with a switching bandwidth of up to 88 MHz: 470 – 558 MHz, 520 – 558 MHz, 558 – 608 MHz, 558 – 626 MHz, 606 – 678 MHz, 626 – 698 MHz, 718 – 790 MHz, 790 – 865 MHz, 806 – 810 MHz, 925 – 937.5 MHz; transmission frequencies shall be 3520 per range and shall be tunable in 25 kHz steps. The radio microphone 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 radio microphone shall be menu-driven with a backlit LC display showing the current frequency, frequency bank and channel number, metering of AF level, transmission status, lock status, pilot tone transmission, muting function, and battery status. An auto-lock feature shall be provided to prevent settings from being accidentally altered.

The radio microphone parameters shall be programmable in the radio microphone menu. Receiver parameters such as receiving frequency, receiver name and pilot tone setting shall be synchronizable with the radio microphone via an integrated infrared interface.

Nominal/peak deviation shall be ± 24 kHz/ ± 48 kHz. Frequency stability shall be $\leq \pm 15$ ppm. RF output power at 50 Ω shall be switchable between 10 mW (typical, low) and 30 mW (typical, standard) and 50 mW (typical, high).

The radio microphone shall incorporate the Sennheiser HDX compander system and a defeatable pilot tone squelch. Audio frequency response shall range from 80 – 18,000 Hz. Signal-to-noise ratio at 1 mV and peak deviation shall be ≥ 115 dBA. Total harmonic distortion (THD) shall be ≤ 0.9 %. Input sensitivity shall be adjustable within a 48 dB range in steps of 6 dB.

Power shall be supplied to the radio microphone by two 1.5V AA size batteries or by one Sennheiser BA 2015 rechargeable accupack. Nominal voltage shall be 2.4 V, current consumption shall be typical 180 mA at nominal voltage; ≤ 25 μ A when radio microphone is switched off. Operating time shall be typical 8 hours. The radio microphone shall have a rugged metal housing; dimensions shall be approximately 50 mm (1.97") in diameter and 265 mm (10.43") in length. Weight including the batteries shall be approximately 450 grams (0.99 lbs). Operating temperature shall range from -10 °C to $+55$ °C ($+14$ °F to $+131$ °F). A range of microphone heads shall be available for the radio microphone.

The radio microphone shall be the Sennheiser SKM 500 G4.