



## evolution wireless G4 SKM 100 G4 | SKM 100 G4-S Handheld Transmitter



Powerful handheld transmitter with a lightweight aluminum housing and integrated mute switch for evolution wireless G4 100 Series systems.

### FEATURES

- Your choice of Sennheiser's renowned e 835, e 845, e 865, e 935, e 945 capsules
- Easy and flexible wireless synchronization between transmitter and receiver via infrared
- Fast frequency allocation for up to 12 receivers via new linking functionality
- Up to 20 compatible channels
- Up to 42 MHz bandwidth with 1680 selectable frequencies, fully tunable in a stable UHF range
- Transmission Range: up to 100 meters / 300 feet
- High RF output power (up to 30 mW) depending on country regulations

### DELIVERY INCLUDES

- SKM 100 G4 or SKM 100 G4-S handheld transmitter
- MZQ 1 microphone clamp
- 2 AA batteries
- quick guide
- safety guide
- manufacturer declaration sheet



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## SKM 100 G4 | SKM 100 G4-S

### Handheld Transmitter

#### PRODUCT VARIANTS

<b>SKM 100 G4-S-A1</b>	470 - 516 MHz	Art. no. 509749	<b>SKM 100 G4-A1</b>	470 - 516 MHz	Art. no. 509757
<b>SKM 100 G4-S-A</b>	516 - 558 MHz	Art. no. 509750	<b>SKM 100 G4-A</b>	516 - 558 MHz	Art. no. 509758
<b>SKM 100 G4-S-A10</b>	516 - 558 MHz	Art. no. 509867	<b>SKM 100 G4-AS</b>	520 - 558 MHz	Art. no. 509822
<b>SKM 100 G4-S-AS</b>	520 - 558 MHz	Art. no. 509814	<b>SKM 100 G4-G</b>	566 - 608 MHz	Art. no. 509759
<b>SKM 100 G4-S-G</b>	566 - 608 MHz	Art. no. 509751	<b>SKM 100 G4-GB</b>	606 - 648 MHz	Art. no. 509970
<b>SKM 100 G4-S-GB</b>	606 - 648 MHz	Art. no. 509988	<b>SKM 100 G4-B</b>	626 - 668 MHz	Art. no. 509760
<b>SKM 100 G4-S-B</b>	626 - 668 MHz	Art. no. 509752	<b>SKM 100 G4-C</b>	734 - 776 MHz	Art. no. 509823
<b>SKM 100 G4-S-B10</b>	626 - 668 MHz	Art. no. 509868	<b>SKM 100 G4-D</b>	780 - 822 MHz	Art. no. 509824
<b>SKM 100 G4-S-C</b>	734 - 776 MHz	Art. no. 509815	<b>SKM 100 G4-JB</b>	806 - 810 MHz	Art. no. 509825
<b>SKM 100 G4-S-D</b>	780 - 822 MHz	Art. no. 509816	<b>SKM 100 G4-E</b>	823 - 865 MHz	Art. no. 509992
<b>SKM 100 G4-S-JB</b>	806 - 810 MHz	Art. no. 509817	<b>SKM 100 G4-K+</b>	925 - 937,5 MHz	Art. no. 509971
<b>SKM 100 G4-S-E</b>	823 - 865 MHz	Art. no. 509989	<b>SKM 100 G4-1G8</b>	1785 - 1800 MHz	Art. no. 509892
<b>SKM 100 G4-S-K+</b>	925 - 937,5 MHz	Art. no. 509990			
<b>SKM 100 G4-S-1G8</b>	1785 - 1800 MHz	Art. no. 509967			

#### ACCESSORIES

<b>MMD 835</b>	cardioid dynamic microphone head	Art. no. 502575
<b>MMD 845</b>	supercardioid dynamic microphone head	Art. no. 502576
<b>MME 865</b>	supercardioid condenser microphone head	Art. no. 502581
<b>MMD 935</b>	cardioid dynamic microphone head	Art. no. 502577
<b>MMD 945</b>	supercardioid dynamic microphone head	Art. no. 502579
<b>MMK 965</b>	condenser microphone head with switchable characteristics	Art. no. 502582
<b>BA 2015</b>	rechargeable battery	Art. no. 009950
<b>LA 2</b>	charging adapter for L 2015 charger	Art. no. 503162
<b>L 2015</b>	charger	Art. no. 009828
<b>KEN 2</b>	identification rings	Art. no. 530195



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### Handheld Transmitter

#### SPECIFICATIONS

RF characteristics		AF characteristics	
Modulation	Wideband FM	Compander system	Sennheiser HDX
Frequency ranges	A1: 470 - 516 MHz A: 516 - 558 MHz A10: 516 - 558 MHz AS: 520 - 558 MHz G: 566 - 608 MHz GB: 606 - 648 MHz B: 626 - 668 MHz B10: 626 - 668 MHz C: 734 - 776 MHz D: 780 - 822 MHz JB: 806 - 810 MHz E: 823 - 865 MHz K+: 925 - 937,5 MHz 1G8: 1785 - 1800 MHz	AF frequency response	80 – 18,000 Hz
Transmission frequencies	Max. 1680 receiving frequencies, adjustable in 25 kHz steps  20 frequency banks, each with up to 12 factory-preset channels, no intermodulation  1 frequency bank with up to 12 programmable channels	Signal-to-noise ratio (1 mV, peak deviation)	≥ 110 dBA
Switching bandwidth	up to 42 MHz	Total harmonic distortion (THD)	≤ 0.9 %
Nominal/peak deviation	±24 kHz / ±48 kHz	Max. input voltage	3 V <sub>eff</sub>
Frequency stability	≤ ±15 ppm	Input impedance	40 kΩ
RF output power at 50 Ω	Max. 30 mW	Input capacitance	Switchable
Pilot tone squelch	Can be switched off	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 μA
		Operating time	Typically 8 h
		Dimensions	Approx. Ø 50 x 265 mm
		Weight (incl. batteries)	approx. 450 g



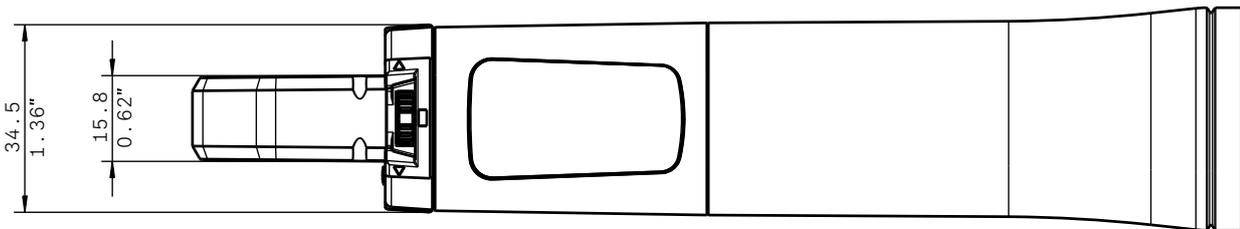
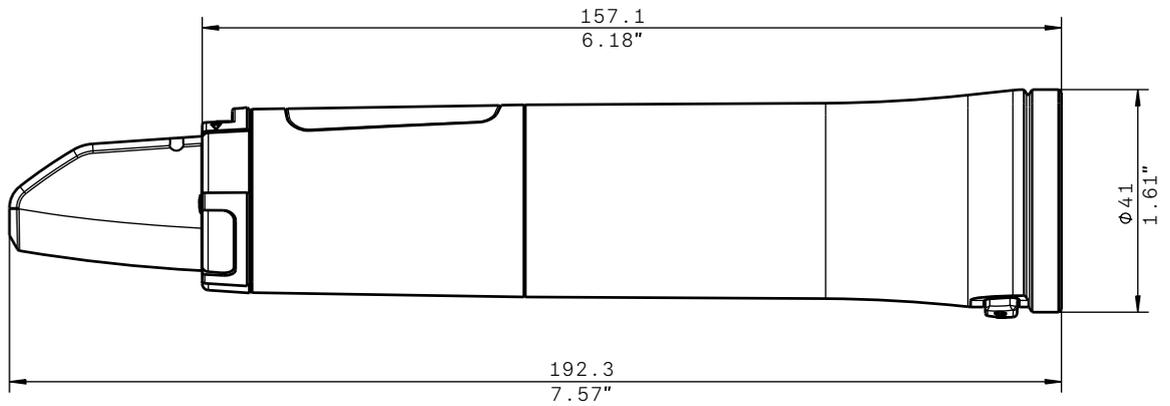
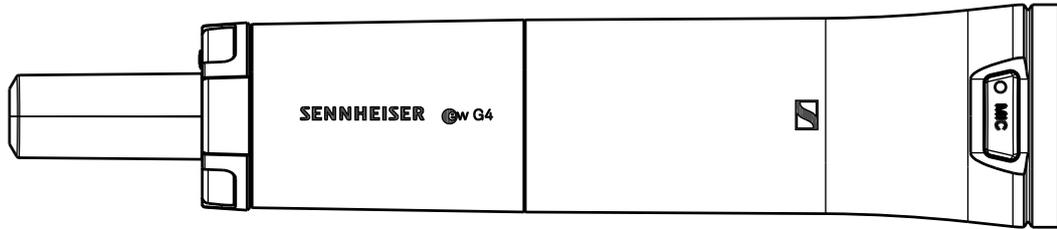
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## SKM 100 G4 | SKM 100 G4-S

### Handheld Transmitter

#### DIMENSIONS

##### SKM 100 G4-S





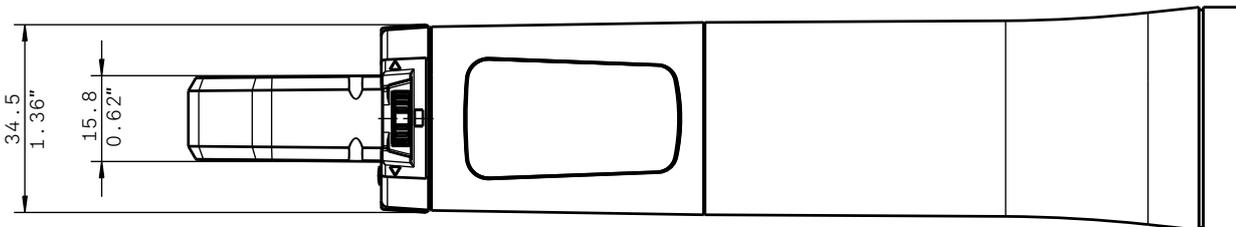
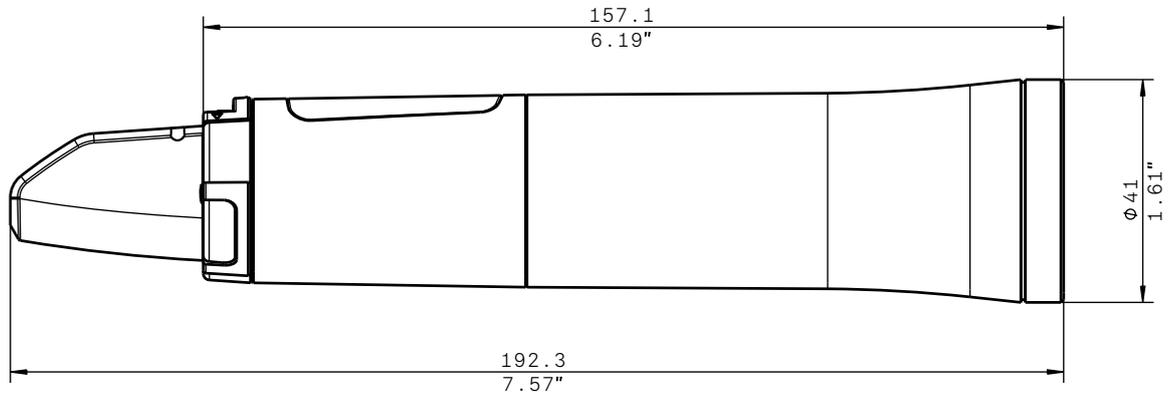
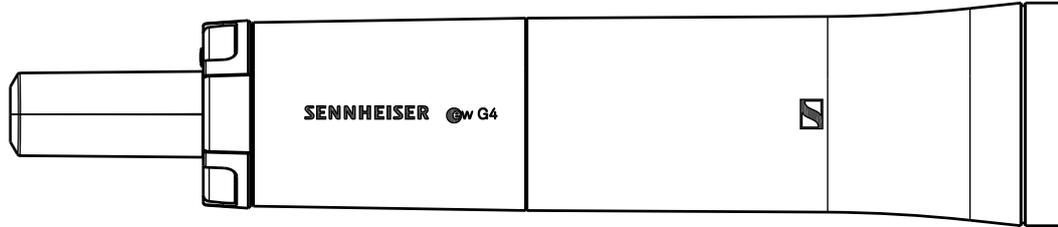
# evolution wireless G4

## SKM 100 G4 | SKM 100 G4-S

### Handheld Transmitter

#### DIMENSIONS

#### SKM 100 G4





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## SKM 100 G4 | SKM 100 G4-S

### Handheld Transmitter

#### 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 twelve UHF frequency ranges, with a switching bandwidth of up to 42 MHz: 470 – 516 MHz, 516 – 558 MHz, 520 – 558 MHz, 566 – 608 MHz, 606 – 648 MHz, 626 – 668 MHz, 734 – 776 MHz, 780 – 822 MHz, 823 – 865 MHz, 806 – 810 MHz, 925 – 937.5 MHz, 1785 – 1800 MHz; transmission frequencies shall be 1,680 per range and shall be tunable in 25 kHz steps. The radio microphone shall feature 20 fixed frequency banks with up to 12 compatible frequency presets and 1 user bank with up to 12 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 either be configurable in the associated receiver's menu and synchronized with the radio microphone via an integrated infrared interface or 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  $\pm 24$  kHz/ $\pm 48$  kHz. Frequency stability shall be  $\leq \pm 15$  ppm. RF output power at 50  $\Omega$  shall be 30 mW (typical).

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  $\geq 110$  dBA. Total harmonic distortion (THD) shall be  $\leq 0.9$  %. 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 1.5 V 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;  $\leq 25$   $\mu$ 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 100 G4.

A variant of the handheld vocal radio microphone shall be equipped with a mute switch, which shall be switchable between "AF on/off", "RF on/off" and "Disabled" via the user interface.

The radio microphone shall be the Sennheiser SKM 100-S G4.