



A broadcast quality sound solution. Providing the highest flexibility for your video sound and field recording applications. A robust wireless microphone system that offers excellent sound quality, simple mounting and ease of use.

Rugged all-in-one wireless system with high flexibility for broadcast quality sound, including the clip-on microphone ME 2-II (omni-directional) or ME 4 (cardioid) for excellent speech intelligibility and daily on-location use.

FEATURES

- Rugged all-in-one wireless system with high flexibility for broadcast quality sound
- Excellent sound and construction quality
- · Easy to use and fast setup time
- · Powerful and reliable wireless transmission
- · Range: up to 100 meters / 330 feet
- Up to 8 hours of operation time

DELIVERY INCLUDES

- EK 100 G4 camera receiver
- SK 100 G4 bodypack transmitter
- ME 2 clip-on microphone (ew 112 P variants only)
- ME 4 clip-on microphone (ew 122 P variants only)
- 4 AA batteries
- CA 2 camera adapter
- CL 1 3.5 mm jack cable
- CL 100 XLR to 3.5 mm jack adapter cable
- quick guide
- · safety guide
- manufacturer declaration sheet



SPECIFICATIONS

EK 100 G4

Wideband FM
A1: 470 - 516 MHz A: 516 - 558 MHz AS: 520 - 558 MHz G: 566 - 608 MHz GB: 606 - 648 MHz B: 626 - 668 MHz C: 734 - 776 MHz D: 780 - 822 MHz E: 823 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz 1G8: 1785 - 1800 MHz
Max. 1680 receiving frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 12 factory-preset channels, no intermodula-
tion 1 frequency bank with up to 12 programmable channels
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Squelch	low: 5 dBμV middle: 15 dBμV high: 25 dBμV
Pilot tone squelch	Can be switched off
AF characteristics	
Compander system	Sennheiser HDX
Signal-to-noise ratio (1 mV, peak deviation)	≥ 110 dBA
Total harmonic distortion (THD)	≤ 0.9 %
AF output voltage (at peak deviation, 1 kHz AF)	3.5 mm jack socket: +12 dBu (mono, unbalanced)
Adjustment range of audio output level	42 dB, adjustable in steps of 6 dB
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 receiver switched off: ≤ 25 µA
Operating time	Typically 8 h
Dimensions	Approx. 82 x 64 x 24 mm
Weight (incl. batteries)	approx. 160 g



SPECIFICATIONS

SK 100 G4

KI CHALACTELISTICS	RF	characteristics	,
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Wideband FM
A1: 470 - 516 MHz A: 516 - 558 MHz AS: 520 - 558 MHz G: 566 - 608 MHz GB: 606 - 648 MHz B: 626 - 668 MHz C: 734 - 776 MHz D: 780 - 822 MHz E: 823 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz 1G8: 1785 - 1800 MHz
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
up to 42 MHz
±24 kHz / ±48 kHz
≤ ±15 ppm
Max. 30 mW
Can be switched off

AF characteristics		
Compander system	Sennheiser HDX	
AF frequency response	Mic: 80 – 18,000 Hz Line: 25 – 18,000 Hz	
Signal-to-noise ratio (1 mV, peak deviation)	≥ 110 dBA	
Total harmonic distortion (THD)	≤ 0.9 %	
Max. microphone/line input voltage	$3\ V_{\text{eff}}$	
Microphone/line input impedance	40 kΩ, unbalanced / 1 MΩ	
Input capacitance	Switchable	
Setting range for input sensitivity	60 dB, adjustable in 3 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. 82 x 64 x 24 mm	
Weight (incl. batteries)	approx. 160 g	

SPECIFICATIONS

ME 2

Transducer principle	pre-polarized condensor microphone
Pick-up pattern	omni-directional
Sensitivity (free field, no load) (1 kHz)	20 mV/Pa
Max. SPL at 1 kHz	130 dB
Frequency response	50 to 18,000 Hz
Equivalent noise level A-weighted (DIN IEC 651)	36 dB
Connector	3.5 mm jack
Cable length	approx. 1.60 m
Supply voltage	7.5 V

ME 4

pre-polarized condensor microphone
cardioid
40 mV/Pa
120 dB
50 to 18,000 Hz
31 dB
3.5 mm jack
approx. 1.60 m
7.5 V

PRODUCT SPECIFICATION 4/7



evolution wireless G4 ew 112 P G4 | Camera Lavalier ME 2 Set ew 122 P G4 | Camera Lavalier ME 4 Set

PRODUCT VARIANTS

Made in Germany			Assembled in USA		
ew 112 P G4-A1	470 - 516 MHz	Art. no. 507612	ew 112 P G4-A1	470 - 516 MHz	Art. no. 507953
ew 112 P G4-A	516 - 558 MHz	Art. no. 507613	ew 112 P G4-A	516 - 558 MHz	Art. no. 507954
ew 112 P G4-GB	606 - 648 MHz	Art. no. 507614	ew 112 P G4-AS	520 - 558 MHz	Art. no. 507955
ew 112 P G4-G	566 - 608 MHz	Art. no. 507615	ew 112 P G4-G	566 - 608 MHz	Art. no. 507956
ew 112 P G4-B	626 - 668 MHz	Art. no. 507616	ew 112 P G4-B	626 - 668 MHz	Art. no. 507957
ew 112 P G4-C	734 - 776 MHz	Art. no. 507617	ew 112 P G4-C	734 - 776 MHz	Art. no. 507958
ew 112 P G4-E	823 - 865 MHz	Art. no. 507618	ew 112 P G4-D	780 - 822 MHz	Art. no. 507959
ew 112 P G4-K+	925 - 937.5 MHz	Art. no. 507619	ew 112 P G4-JB	806 - 810 MHz	Art. no. 507960
ew 112 P G4-TH	794 - 806 MHz	Artno. 508580			
ew 122 P G4-A1	470 - 516 MHz	Art. no. 507620	ew 122 P G4-A1	470 - 516 MHz	Art. no. 507961
ew 122 P G4-A	516 - 558 MHz	Art. no. 507621	ew 122 P G4-A	516 - 558 MHz	Art. no. 507962
ew 122 P G4-GB	606 - 648 MHz	Art. no. 507622	ew 122 P G4-AS	520 - 558 MHz	Art. no. 507963
ew 122 P G4-G	566 - 608 MHz	Art. no. 507623	ew 122 P G4-G	566 - 608 MHz	Art. no. 507964
ew 122 P G4-B	626 - 668 MHz	Art. no. 507624	ew 122 P G4-B	626 - 668 MHz	Art. no. 507965
ew 122 P G4-C	734 - 776 MHz	Art. no. 507625	ew 122 P G4-C	734 - 776 MHz	Art. no. 507966
ew 122 P G4-E	823 - 865 MHz	Art. no. 507626	ew 122 P G4-D	780 - 822 MHz	Art. no. 507967
ew 122 P G4-K+	925 - 937.5 MHz	Art. no. 507627	ew 122 P G4-JB	806 - 810 MHz	Art. no. 507968

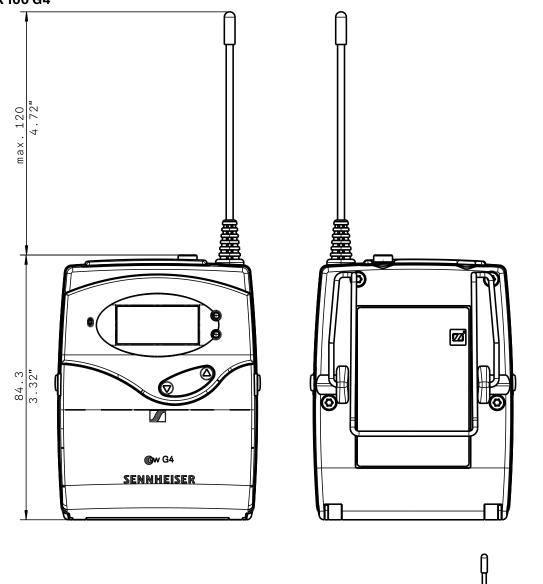


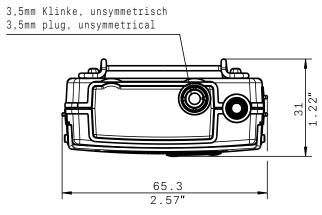
evolution wireless G4

ew 112 P G4 | Camera Lavalier ME 2 Set ew 122 P G4 | Camera Lavalier ME 4 Set

DIMENSIONS

EK 100 G4







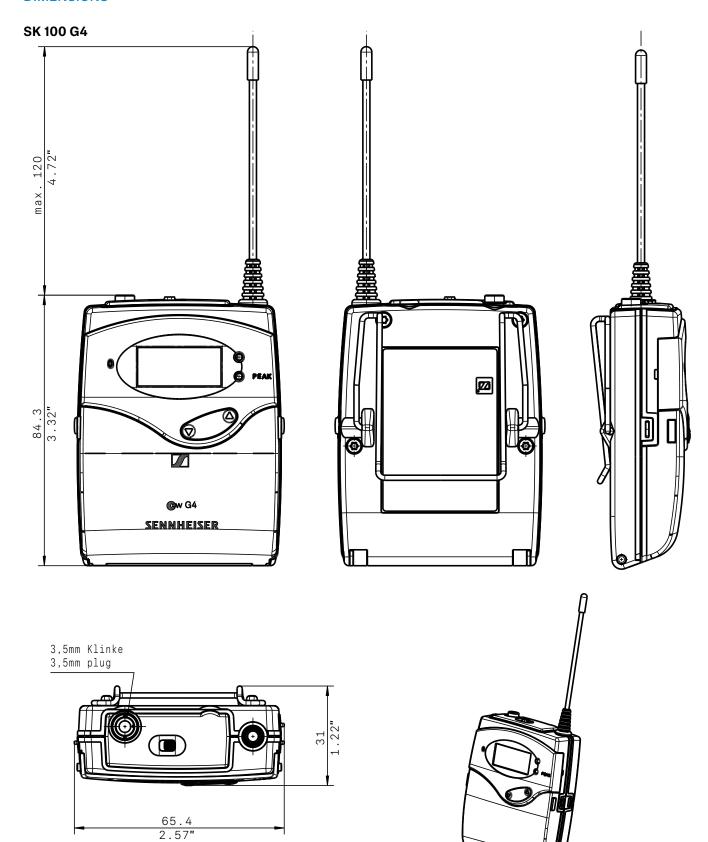




evolution wireless G4

ew 112 P G4 | Camera Lavalier ME 2 Set ew 122 P G4 | Camera Lavalier ME 4 Set

DIMENSIONS





ARCHITECT'S SPECIFICATION

A wireless RF transmission system consisting of a camera receiver and a bodypack transmitter with a clip-on microphone.

The system shall operate within eleven 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; transmission frequencies shall be 1,680 per range and shall be tunable in 25 kHz steps. The system 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 receiver shall be menu-driven with a backlit LC display showing the current frequency, frequency bank and channel number, metering of RF level, metering of AF level, lock status, battery status, muting function or line output level, and pilot tone evaluation. An auto-lock feature shall be provided to prevent settings from being accidentally altered.

The receiver parameters shall be programmable in the receiver menu.

The receiver shall feature a 3.5 mm audio output with a maximum output of +11 dBu (mono, unbalanced).

Nominal/peak deviation shall be ± 24 kHz/ ± 48 kHz. Squelch threshold shall be adjustable to three levels: Low (5 dB μ V), Middle (15 dB μ V) and High (25 dB μ V).

The receiver shall incorporate the Sennheiser HDX compander system and a defeatable pilot tone squelch. Sensitivity shall be < 1.6 μ V (typical) for 52 dBA eff S/N with HDX engaged at peak deviation. Adjacent channel rejection shall be \geq 65 dB (typical). Intermodulation attenuation shall be \geq 65 dB (typical); blocking shall be \geq 70 dB. Signal-to-noise ratio at 1 mV and peak deviation shall be \geq 110 dBA. Total harmonic distortion (THD) shall be \leq 0.9 %. The audio output level shall be adjustable within a 42 dB range in steps of 6 dB.

Power shall be supplied to the receiver 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 μ A when receiver is switched off. Operating time shall be typical 8 hours. The receiver shall have a rugged metal housing; dimensions shall be approximately 82 x 64 x 24 mm (3.23" x 2.52" x 0.94"). Weight including the batteries shall beapproximately 160 grams (0.35 lbs). Operating temperature shall range from -10 °C to +55 °C (+14 °F to +131 °F).

The receiver shall be the Sennheiser EK 100 G4.

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, 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 transmitter parameters shall either be configurable in the associated receiver's menu and synchronized with the transmitter via an integrated interface or shall be programmable in the transmitter menu.

The transmitter shall be equipped with a mute switch, which shall be switchable between "AF on/off", "RF on/off" and "Disabled" via the user 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 30 mW (typical).

The transmitter shall incorporate the Sennheiser HDX compander system and a defeatable pilot tone squelch. Audio frequency response shall range from 80 - 18,000 Hz (microphone) or 25 - 18,000 Hz (line). Signal-to-noise ratio at 1 mV and peak deviation shall be ≥ 110 dBA. Total harmonic distortion (THD) shall be ≤ 0.9 %. Input sensitivity shall be adjustable within a 60 dB range in steps of 3 dB.

Power shall be supplied to the transmitter by two 1.5 V AA size batteries or by one Sennheiser BA 2015 rechargeable accupack. Nominal voltage shall be 2.4 V for a rechargeable battery or 3 V for a battery, current consumption shall be typical 180 mA at nominal voltage; \leq 25 μ A when transmitter is switched off. Operating time shall be typical 8 hours. The transmitter shall have a rugged metal housing; dimensions shall be approximately 82 x 64 x 24 mm (3.23" x 2.52" x 0.94"). Weight including the batteries shall be approximately 160 grams (0.35 lbs). Operating temperature shall range from -10 °C to +55 °C (+14 °F to +131 °F).

The transmitter shall be the Sennheiser SK 100 G4.