



evolution wireless G4

ew 512P G4 | Pro Camera Lavalier MKE 2 Set



The professional's choice for broadcast quality sound
Providing the highest flexibility for your video sound and field recording applications. A robust wireless microphone system that offers ultimate sound quality, simple mounting and ease of use.

Impressive film sound was never that easily done. The legendary MKE 2 Gold professional clip-on microphone ensures best speech intelligibility, the portable transmitter and receiver are easily mounted and ensure 8 hours of mobile operation.

FEATURES

- Highly versatile solution for professional film sound: Rugged all-in-one wireless system for professional interviews and recording
- Professional sound and excellent construction quality
- Easy to use and fast setup time
- Easy and flexible wireless synchronisation between transmitter and receiver via infrared
- Up to 88 MHz bandwidth, up to 32 channels
- Range: up to 100 meters / 330 feet
- Increased RF output power (10/30/50 mW)
- Up to 8 hours of operation time

DELIVERY INCLUDES

- EK 500 G4 camera receiver
- SK 500 G4 bodypack transmitter
- MKE 2 clip-on microphone
- 4 AA batteries
- CL 1 3.5 mm jack cable
- CL 500 XLR to 3.5 mm jack adapter cable
- CA 2 camera adapter
- fur windscreen for MKE 2
- quick guide
- safety guide
- manufacturer declaration sheet



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PRODUCT VARIANTS

ew 512P G4-Aw+	470 - 558 MHz	Art. no. 508437
ew 512P G4-AS	520 - 558 MHz	Art. no. 508137
ew 512P G4-Gw1	558 - 608 MHz	Art. no. 508458
ew 512P G4-Gw	558 - 626 MHz	Art. no. 507800
ew 512P G4-GBw	606 - 678 MHz	Art. no. 507799
ew 512P G4-Bw	626 - 698 MHz	Art. no. 508140
ew 512P G4-Cw	718 - 790 MHz	Art. no. 508141
ew 512P G4-Dw	790 - 865 MHz	Art. no. 508142
ew 512P G4-JB	806 - 810 MHz	Art. no. 508138
ew 512P G4-K+	925 - 937.5 MHz	Art. no. 507798

SPECIFICATIONS

EK 500 G4

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: 626 - 698 MHz Cw: 718 - 790 MHz Dw: 790 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz
Receiving frequencies	Max. 3520 receiving frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 32 factory-preset 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
Receiver principle	Adaptive diversity
Sensitivity (with HDX, peak deviation)	< 1.6 µV for 52 dBA _{eff S/N}
Adjacent channel selection	Typically ≥ 65 dB
Intermodulation attenuation	Typically ≥ 65 dB
Blocking	≥ 70 dB

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)	Line: ≥ 110 dBA Phones: approx. 90 dBA
Total harmonic distortion (THD)	≤ 0.9 %
AF output voltage (at peak deviation, 1 kHz AF)	3.5 mm jack socket: +17 dBu (mono, balanced)
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. 140 mA with receiver switched off: ≤ 25 µA
Operating time	Typically 8 h
Dimensions	Approx. 82 x 64 x 24 mm
Weight (incl. batteries)	approx. 130 g



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SPECIFICATIONS

SK 500 G4

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 intermo- dulation 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

MKE 2

Transducer principle	pre-polarized condensor microphone
Pick-up pattern	omni-directional
Sensitivity (free field, no load) (1 kHz)	5 mV/Pa, ± 3 dB
Max. SPL at 1 kHz	142 dB
Frequency response	20 to 20.000 Hz ± 3 dB
"Equivalent noise level A-weighted (DIN IEC 651)"	26 dB
"Equivalent noise level CCIR-weighted (CCIR 468- 1)"	39 dB
Connector	3.5 mm jack
Cable length	approx. 1.60 m

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)	≥ 115 dBA
Total harmonic distortion (THD)	≤ 0.9 %
Max. microphone/line input voltage	3 V _{eff}
Microphone/line input impedance	40 k Ω , unbalanced / 1 M Ω
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 μ A
Operating time	Typically 8 h
Dimensions	Approx. 82 x 64 x 24 mm
Weight (incl. batteries)	approx. 160 g

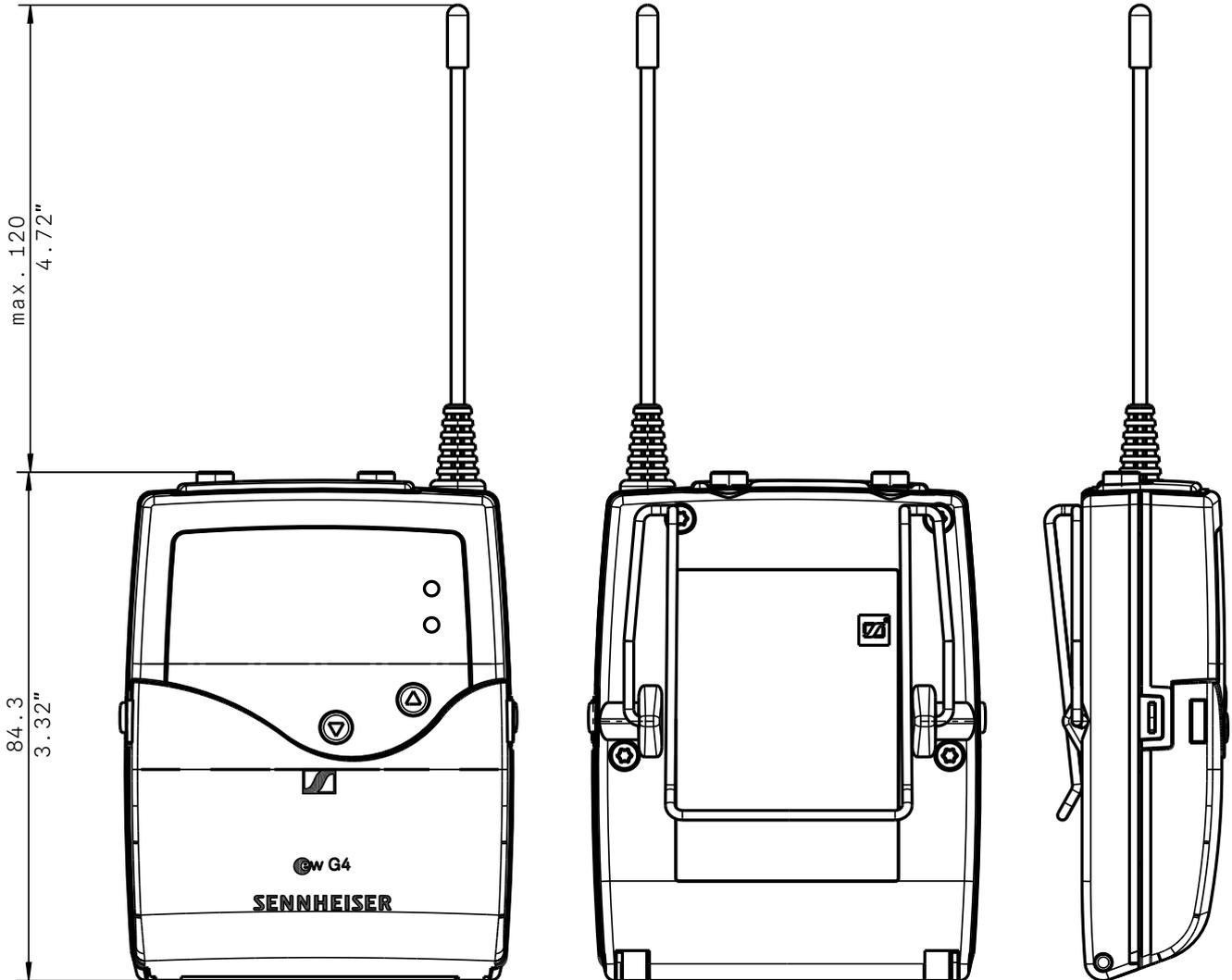


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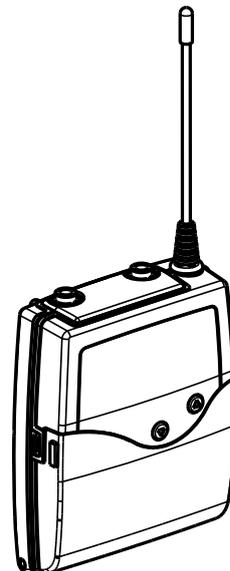
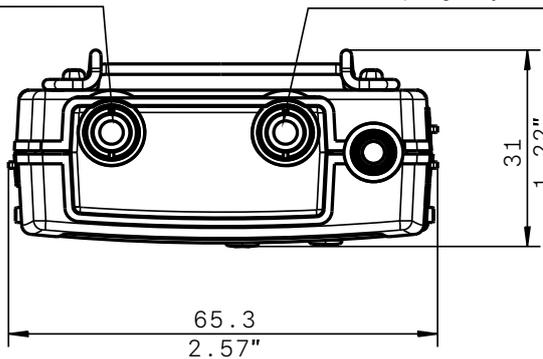
DIMENSIONS

EK 500 G4



3,5mm Klinke
3,5mm plug

3,5mm Klinke, symmetrisch
3,5mm plug, symmetrical



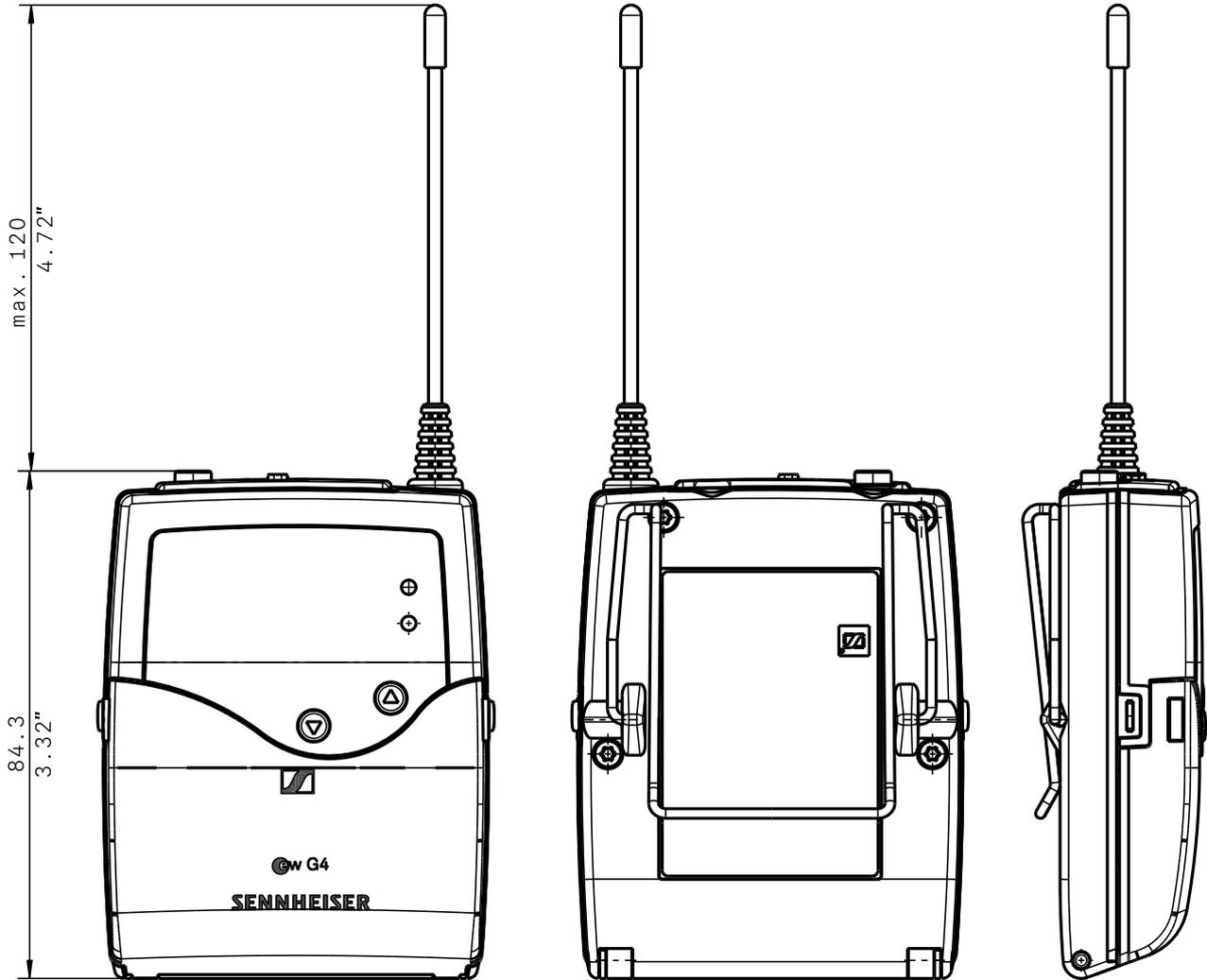


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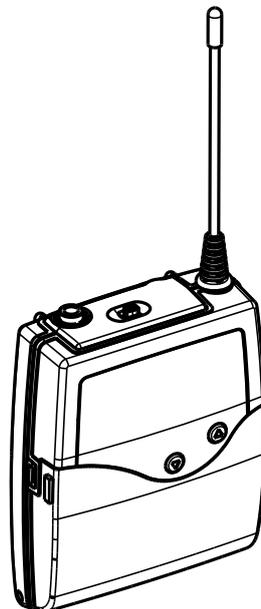
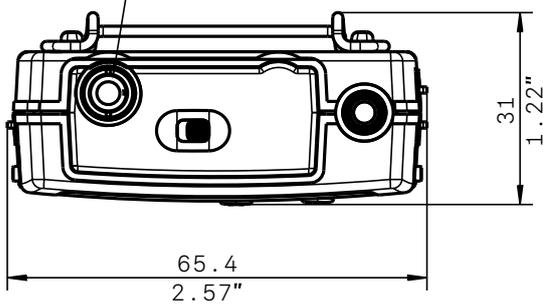
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DIMENSIONS

SK 500 G4



3,5mm Klinke
3,5mm plug





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ARCHITECT'S SPECIFICATION

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

The system 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; receiving frequencies shall be 3520 per range and shall be tunable in 25 kHz steps. The system 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 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 either be configurable in the associated transmitter's menu and synchronized with the receiver via an integrated infrared interface or shall be programmable in the receiver menu.

The receiver shall feature a 3.5 mm audio output with a maximum output of +17 dBu (mono, balanced) and a 3.5 mm phone output.

Nominal/peak deviation shall be ± 24 kHz/ ± 48 kHz. Squelch threshold shall be defeatable (off) or 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 for 52 dBA eff S/N with HDX engaged at peak deviation. Adjacent channel rejection shall be ≥ 65 dB (typical). Intermodulation attenuation shall be ≥ 65 dB (typical); blocking shall be ≥ 70 dB. Signal-to-noise ratio at 1 mV and peak deviation shall be ≥ 110 dBA (line) or approximately 90 dBA (phones). Total harmonic distortion (THD) shall be ≤ 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 1.5V AA size batteries or by one Sennheiser BA 2015 rechargeable accupack. Nominal voltage shall be 2.4 V, current consumption shall be typical 140 mA at nominal voltage; ≤ 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 be approximately 130 grams (0.29 lbs). Operating temperature shall range from -10 °C to $+55$ °C ($+14$ °F to $+131$ °F).

The receiver shall be the Sennheiser EK 500 G4.

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

The bodypack 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 switchable between 10 mW (typical, low) and 30 mW (typical, standard) and 50 mW (typical, high).

The bodypack 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 ≥ 115 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 bodypack transmitter 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 bodypack transmitter is switched off. Operating time shall be typical 8 hours. The bodypack 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 bodypack transmitter shall be the Sennheiser SK 500 G4.