



evolution wireless G4

EK 500 G4 | Pro Camera Receiver



FEATURES

- 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

Powerful black camera receiver with increased bandwidth and transmission power for evolution wireless G4 500P Series systems. For professional film productions, easily mounted on any kind of camera.

DELIVERY INCLUDES

- EK 500 G4 camera receiver
- 2 AA batteries
- CA 2 camera adapter
- CL 1 3.5 mm jack cable
- CL 500 XLR to 3.5 mm jack adapter cable
- quick guide
- safety guide
- manufacturer declaration sheet

ACCESSORIES

BA 2015	rechargeable battery	Art. no. 009950
L 2015	charger	Art. no. 009828
		Art. no. 5

PRODUCT VARIANTS

Made in Germany

EK 500 G4-K+	925 - 937.5 MHz	Art. no. 507822
EK 500 G4-GBw	606 - 678 MHz	Art. no. 507823
EK 500 G4-Gw	558 - 626 MHz	Art. no. 507824
EK 500 G4-Bw	626 - 698 MHz	Art. no. 507825
EK 500 G4-Cw	718 - 790 MHz	Art. no. 507826
EK 500 G4-Dw	790 - 865 MHz	Art. no. 507827
EK 500 G4-Aw+	470 - 558 MHz	Art. no. 508419

Assembled in USA

EK 500 G4-AS	520 - 558 MHz	Art. no. 508161
EK 500 G4-JB	806 - 810 MHz	Art. no. 508162
EK 500 G4-Gw	558 - 626 MHz	Art. no. 508163
EK 500 G4-Bw	626 - 698 MHz	Art. no. 508164
EK 500 G4-Cw	718 - 790 MHz	Art. no. 508165
EK 500 G4-Dw	790 - 865 MHz	Art. no. 508166
EK 500 G4-Aw+	470 - 558 MHz	Art. no. 508440
EK 500 G4-Gw1	558 - 608 MHz	Art. no. 508461



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SPECIFICATIONS

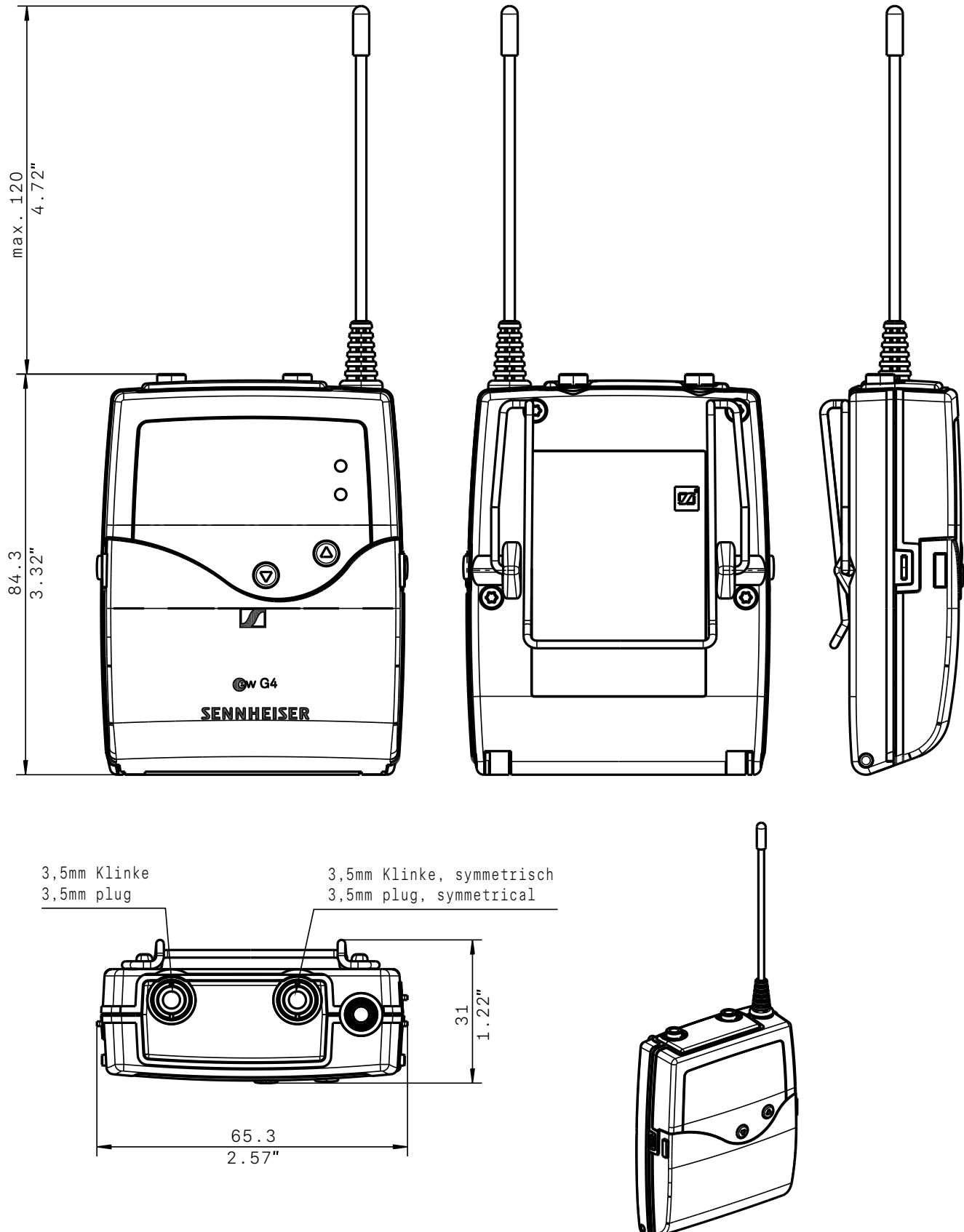
RF characteristics		Pilot tone squelch	Can be switched off
Modulation	Wideband FM	AF characteristics	
Frequency ranges	Aw+: 470 - 558 MHz AS: 520 - 558 MHz Gw1: 558 - 608 MHz Gw: 558 - 626 MHz GBw: 606 - 678 MHz Bw: 526 - 698 MHz Cw: 718 - 790 MHz Dw: 790 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz	Compander system	Sennheiser HDX
Receiving frequencies	Max. 3520 receiving 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	Signal-to-noise ratio (1 mV, peak deviation)	Line: ≥ 110 dBA Phones: approx. 90 dBA
Switching bandwidth	up to 88 MHz	Total harmonic distortion (THD)	≤ 0.9 %
Nominal/peak deviation	± 24 kHz / ± 48 kHz	AF output voltage (at peak deviation, 1 kHz AF)	3.5 mm jack socket: +17 dBu (mono, unbalanced)
Receiver principle	Adaptive diversity	Adjustment range of audio output level	42 dB, adjustable in steps of 6 dB
Sensitivity (with HDX, peak deviation)	< 1.6 μ V for 52 dBA _{eff S/N}	Overall device	
Adjacent channel selection	Typically ≥ 65 dB	Temperature range	-10 °C to +55 °C
Intermodulation attenuation	Typically ≥ 65 dB	Power supply	2 AA batteries, 1.5 V or BA 2015 accupack
Blocking	≥ 70 dB	Nominal voltage	3 V battery / 2.4 V rechargeable battery
Squelch	low: 5 dB μ V middle: 15 dB μ V high: 25 dB μ V	Current consumption	at nominal voltage: typ. 140 mA with receiver switched off: ≤ 25 μ A
		Operating time	Typically 8 h
		Dimensions	Approx. 82 x 64 x 24 mm
		Weight (incl. batteries)	approx. 130 g



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DIMENSIONS





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ARCHITECT'S SPECIFICATION

The compact camera receiver with adaptive diversity technology shall be for use with a companion transmitter as part of a wireless RF monitoring system.

The receiver 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 receiver 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, unbalanced) 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 dB (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 ac-cupack. 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.