PRODUCT SPECIFICATION 1/4



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

790 - 865 MHz

806 - 810 MHz

Art. no. 509598

Art. no. 509595

925 - 937.5 MHz Art. no. 509900

PRODUCT VARIANTS

| EK 500 G4-Aw+ | 470 - 558 MHz | Art. no. 509546 | EK 500 G4-Dw |
|---------------|---------------|-----------------|--------------|
| EK 500 G4-AS | 520 - 558 MHz | Art. no. 509594 | EK 500 G4-JB |
| EK 500 G4-Gw1 | 558 - 608 MHz | Art. no. 509553 | EK 500 G4-K+ |
| EK 500 G4-Gw | 558 - 626 MHz | Art. no. 509596 | |
| EK 500 G4-GBw | 606 - 678 MHz | Art. no. 509901 | |
| EK 500 G4-Bw | 626 - 698 MHz | Art. no. 509539 | |
| EK 500 G4-Cw | 718 - 790 MHz | Art. no. 509597 | |

PRODUCT SPECIFICATION 2/4



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SPECIFICATIONS

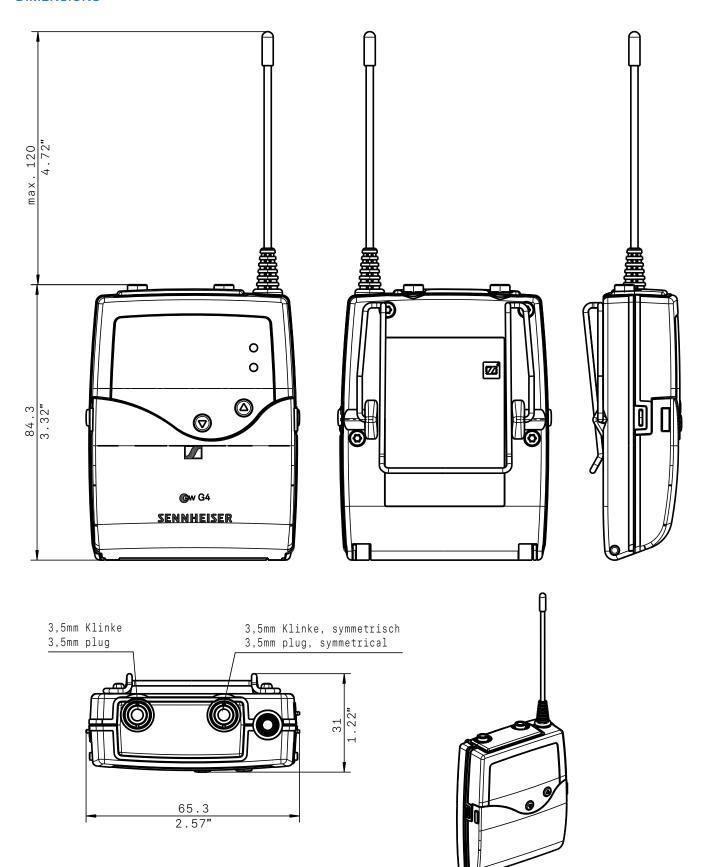
| RF characteristics | |
|--|--|
| Modulation | Wideband FM |
| Frequency ranges | Aw+: 470 - 558 MHz AS: 520 - 558 MHz Gw1: 558 - 608 MHz Gw: 558 - 626 MHz GBw: 606 - 678 MHz Bw: 626 - 698 MHz Cw: 718 - 790 MHz Dw: 790 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz |
| Receiving frequencies | Max. 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 $_{effS/N}$ |
| Adjacent channel selection | Typically ≥ 65 dB |
| Intermodulation attenua- tion | 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, | Line: ≥ 110 dBA |
| peak deviation) | Phones: approx. 90 dBA |
| Total harmonic distortion (THD) | ≤ 0.9 % |
| AF output voltage (at peak | 3.5 mm jack socket: |
| deviation, 1 kHz AF) | +17 dBu |
| | (mono, balanced) |
| Adjustment range of audio output level | 42 dB, adjustable in steps of 6 dB |
| output level | adjustable III steps of 6 db |
| Overall device | |
| | |
| Temperature range | -10 °C to +55 °C |
| Temperature range Power supply | -10 °C to +55 °C 2 AA batteries, 1.5 V or BA 2015 accupack |
| | 2 AA batteries, 1.5 V or |
| Power supply | 2 AA batteries, 1.5 V or BA 2015 accupack |
| Power supply | 2 AA batteries, 1.5 V or BA 2015 accupack 3 V battery / 2.4 V rechargeable battery at nominal voltage: |
| Power supply Nominal voltage | 2 AA batteries, 1.5 V or BA 2015 accupack 3 V battery / 2.4 V rechargeable battery at nominal voltage: typ. 140 mA |
| Power supply Nominal voltage | 2 AA batteries, 1.5 V or BA 2015 accupack 3 V battery / 2.4 V rechargeable battery at nominal voltage: typ. 140 mA with receiver switched off: |
| Power supply Nominal voltage Current consumption | 2 AA batteries, 1.5 V or BA 2015 accupack 3 V battery / 2.4 V rechargeable battery at nominal voltage: typ. 140 mA with receiver switched off: ≤ 25 µA |
| Power supply Nominal voltage Current consumption Operating time | 2 AA batteries, 1.5 V or BA 2015 accupack 3 V battery / 2.4 V rechargeable battery at nominal voltage: typ. 140 mA with receiver switched off: ≤ 25 µA Typically 8 h |
| Power supply Nominal voltage Current consumption | 2 AA batteries, 1.5 V or BA 2015 accupack 3 V battery / 2.4 V rechargeable battery at nominal voltage: typ. 140 mA with receiver switched off: ≤ 25 µA |



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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, 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 \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 (line) or approximately 90 dbA (phones). 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 1.5V 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; \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 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.