



# evolution wireless G4

## ew 512 P 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

#### Made in Germany

<b>ew 512 P G4-K+</b>	925 - 937.5 MHz	Art. no. 507798
<b>ew 512 P G4-GBw</b>	606 - 678 MHz	Art. no. 507799
<b>ew 512 P G4-Gw</b>	558 - 626 MHz	Art. no. 507800
<b>ew 512 P G4-Bw</b>	626 - 698 MHz	Art. no. 507801
<b>ew 512 P G4-Cw</b>	718 - 790 MHz	Art. no. 507802
<b>ew 512 P G4-Dw</b>	790 - 865 MHz	Art. no. 507803
<b>ew 512 P G4-Aw+</b>	470 - 558 MHz	Art. no. 508416

#### Assembled in USA

<b>ew 512 P G4-AS</b>	520 - 558 MHz	Art. no. 508137
<b>ew 512 P G4-JB</b>	806 - 810 MHz	Art. no. 508138
<b>ew 512 P G4-Gw</b>	558 - 626 MHz	Art. no. 508139
<b>ew 512 P G4-Bw</b>	626 - 698 MHz	Art. no. 508140
<b>ew 512 P G4-Cw</b>	718 - 790 MHz	Art. no. 508141
<b>ew 512 P G4-Dw</b>	790 - 865 MHz	Art. no. 508142
<b>ew 512 P G4-Aw+</b>	470 - 558 MHz	Art. no. 508437
<b>ew 512 P G4-Gw1</b>	558 - 608 MHz	Art. no. 508458

### 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: 526 - 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 <sub>eff S/N</sub>
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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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	$\pm 24$ kHz / $\pm 48$ kHz
Frequency stability	$\leq \pm 15$ ppm
RF output power at 50 $\Omega$	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, $\pm 3$ dB
Max. SPL at 1 kHz	142 dB
Frequency response	20 to 20.000 Hz $\pm 3$ 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)	$\geq 115$ dBA
Total harmonic distortion (THD)	$\leq 0.9$ %
Max. microphone/line input voltage	3 V <sub>eff</sub>
Microphone/line input impedance	40 k $\Omega$ , unbalanced / 1 M $\Omega$
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: $\leq 25$ $\mu$ A
Operating time	Typically 8 h
Dimensions	Approx. 82 x 64 x 24 mm
Weight (incl. batteries)	approx. 160 g