

# ew 100 <sup>Ⓔ</sup> Camera Set

RF Wireless Systems | evolution wireless G3

## System variants and included components:

- ew 100 ENG G3 – (1) SK 100 G3 bodypack transmitter, (1) ME 2 omnidirectional clip-on microphone, (1) SKP 100 G3 plug-on transmitter, (1) CL1 1/8" output cable, (1) CL 100 XLR unbalanced output cable, (1) CA 2 camera mount, and (1) EK 100 G3 diversity camera receiver
- ew 112-p G3 – (1) SK 100 G3 bodypack transmitter, (1) ME 2 omnidirectional clip-on microphone, (1) EK 100 G3 diversity camera receiver, (1) CL1 1/8" output cable, (1) CL 100 XLR unbalanced output cable, (1) CA 2 camera mount
- ew 122-p G3 – (1) SK 100 G3 bodypack transmitter, (1) ME 4 clip-on cardioid microphone, (1) EK 100 G3 diversity camera receiver, (1) CL1 1/8" output cable, (1) CL 100 XLR unbalanced output cable, (1) CA 2 camera mount
- ew 135-p G3 – (1) SKM 100 G3 handheld transmitter, (1) e 835 dynamic cardioid capsule, (1) MZQ 1 microphone clip, (1) EK 100 G3 diversity camera receiver, (1) CL1 1/8" output cable, (1) CL 100 XLR unbalanced output cable, (1) CA 2 camera mount

For recommended accessories please visit [www.sennheiserusa.com](http://www.sennheiserusa.com)



## Features

- Sturdy metal housing
- Automatic frequency management for transmitter and receiver
- Tunable UHF frequencies within a large switching bandwidth
- Compact diversity receiver for optimum reception
- Adaptive diversity receiver
- Wireless synchronization of transmitters via infrared interface
- Enhanced frequency bank management with up to 12 compatible frequencies per bank
- 42 MHz bandwidth, 1,680 switchable frequencies
- Increased range for audio sensitivity
- Easy-to-read illuminated dot matrix display
- 4-level battery indicator for transmitter
- More control options (menu)
- Enhanced AF frequency range
- Contacts for recharging the BA 2015 accupack directly in the transmitter (not SKP 100) or receiver (SKM requires LA2 adapter)
- (2) AA batteries for more than 8 hours of use
- Frequency scan for finding available frequencies
- HDX compander for crystal-clear sound
- High RF output power for large range

## General Description

The ew 100 G3 Camera Set system is ideal for video recording in various environments, including studios and the outdoors. The clip-on microphone – which is included in the ew 100 ENG G3, ew 112-p G3, and ew 122-p G3 systems – is virtually invisible. The SKM 100 G3 handheld transmitter, which is included in the ew 135-p G3 system, comes with an e 835 microphone head and is compatible with any other capsules from the Sennheiser evolution series. Each system features 20 channel banks with one user bank and 12 directly accessible presets. The included SKP 100 G3 plug-on transmitter conveniently transforms any wired microphone into a wireless one. Each system is ready to use.

## Technical Specifications

### ew 100 <sup>Ⓔ</sup>

Modulation.....wideband FM  
 Frequency ranges .....516–558, 566–608,  
 .....626–668, 734–776, 780–822, 823–865  
 Transmission/Receiving  
 frequencies ..... 20 channel banks, 1 user bank,  
 ..... 12 factory preset channels each  
 Switching bandwidth..... 42 MHz  
 Noise reduction system..... Sennheiser HDX  
 AF frequency response ..... 25 – 18,000 Hz  
 S/N ratio (at 1mV and peak deviation) ..... ≥ 110 dBA  
 THD (at nominal deviation and 1 kHz) ..... ≤ 0.9 %

### SK 100 <sup>Ⓔ</sup>

RF output power at 50 Ω ..... typ. 30 mW  
 AF frequency response ..... 25 – 18,000 Hz (Line)  
 Max input voltage transmitter / line ..... 3 V<sub>eff</sub>  
 Input impedance transmitter / line ..... 40 kΩ,  
 ..... unbalanced / 1MΩ  
 Power supply ..... 2 AA batteries, 1.5 V  
 Nominal voltage..... 2.4 V  
 Operating time..... typ. 8 h  
 Dimensions ..... 3.23" x 2.52" x 0.94"  
 Weight ..... approx. 5.64 oz

### EK 100 <sup>Ⓔ</sup>

Receiver principle..... Diversity  
 Sensitivity (with HDX,  
 peak deviation) ..... <2.5 μV at 52 dBA<sub>eff</sub> S/N  
 Adjacent channel rejection ..... ≥ 65 dB  
 Intermodulation attenuation ..... ≥ 65 dB  
 Blocking ..... ≥ 70 dB  
 Pilot-tone squelch..... detachable  
 AF output voltage (at peak  
 deviation, 1kHz AF)..... 3.5 mm jack socket,  
 ..... unbalanced: +12 dBu  
 Power supply ..... 2 AA batteries, 1.5 V  
 Dimensions ..... approx. 3.23" x 2.52" x 0.94"  
 Weight ..... approx. 5.64 oz (incl. batteries)  
 Operation time ..... typ. 8 h

# ew 100 G3 Camera Set

# ew 100 <sup>Ⓔ3</sup> Camera Set

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### Technical Specifications (continued)

#### SKP 100 <sup>Ⓔ3</sup>

RF frequency range .....	516–865 MHz
Transmission/receiving frequencies .....	1,680
Switching bandwidth .....	42 MHz
Frequency response (microphone) ....	80 - 18,000 Hz
Signal-to-noise-ratio .....	>110 dB(A)
XLR connector .....	XLR-3 female
RF output power .....	30 mW
Total harmonic distortion (THD) .....	<0.9%
Operating time (transmitter) .....	>8 h

### Architect and Engineering Specifications

The wireless microphone system shall feature a true-diversity receiver with 42 MHz of available tuning bandwidth with a total of 1,680 switchable frequencies accessible in 25 kHz steps. The wireless microphone receiver must feature two BNC antenna inputs, one for each receiver module in the true diversity system. The wireless microphone receiver must feature a backlit display that displays AF and RF levels, battery telemetry from the transmitter, operating frequency, and diversity switching information. The wireless microphone receiver must feature an automatic frequency scanning function that utilizes eight banks of pre-coordinated frequencies that are free of intermodulation interference. The wireless microphone receiver must also feature a user bank in order to store user defined frequencies. The wireless microphone transmitter must operate on two 1.5V AA battery cells. The wireless microphone transmitter must have access to 1,680 frequencies tuned in 25 kHz steps across a defined 42 MHz bandwidth. The wireless microphone transmitter must feature a backlit display that displays frequency information, AF level, battery level. The wireless microphone transmitter must transmit a pilot-tone squelch. The wireless microphone transmitter must have a specified RF output power of 30mW.

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