

# ew 152 Head Set

RF Wireless Systems | evolution wireless G3

## General Description

This system is ideal for hands-free vocal and speech applications, and is particularly well-suited for on-stage performers. The system includes the lightweight ME 3 head-worn microphone. The extremely small SK 100 G3 bodypack transmitter and EM 100 G3 rack-mount receiver each feature 20 channel banks with one user bank and 12 directly accessible presets. The system is ready for immediate use.



## Kit includes:

- (1) EM 100 G3 rack-mountable receiver
- (1) SK 100 G3 bodypack transmitter
- (1) ME 3-ew cardioid headset microphone

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
- Programmable MUTE switch
- Headset microphone with optimized acoustics
- Wireless synchronization of transmitters via infrared interface
- Enhanced frequency bank management with up to 12 compatible frequencies
- 42 MHz bandwidth, 1,680 switchable frequencies
- Increased range for audio sensitivity
- Easy-to-read illuminated dot matrix display with warning indicator
- More control options (menu)
- Enhanced AF frequency range
- Soundcheck mode
- Integrated equalizer
- Contacts for recharging the BA 2015 accupack directly in the transmitter
- (2) AA batteries for over 8 hours of use
- 4-level battery indicator for transmitter
- HDX compander for crystal-clear sound
- True diversity receiver for optimum reception
- High RF output power for large range
- Suitable for 19" rack mounting (1 U)

## Technical Specifications

### ew 100

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) ..  $\geq 110$  dBA  
THD (at nominal deviation and 1 kHz) .....  $\leq 0.9$  %

### EM 100

Receiver principle..... True Diversity  
Sensitivity (with HDX,  
peak deviation) .....  $< 2.5 \mu\text{V}$  at 52 dBA<sub>eff</sub> S/N  
Adjacent channel rejection .....  $\geq 65$  dB  
Intermodulation attenuation .....  $\geq 65$  dB  
Blocking .....  $\geq 70$  dB  
Pilot-tone squelch..... detachable  
Antenna inputs ..... 2 BNC sockets  
AF output voltage (at peak deviation,  
1 kHz AF)..... 1/4" (6.3 mm) jack socket,  
..... unbalanced: +12 dBu XLR socket,  
..... balanced: +18 dBu  
Power supply ..... 12 V DC  
Dimensions ..... 7.48" x 8.35" x 1.69"  
Weight ..... approx. 1.99 lbs

### SK 100

RF output power at 50  $\Omega$  ..... 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 k $\Omega$ ,  
..... unbalanced / 1M $\Omega$   
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

### ME 3-ew

Transducer principle..... condenser  
Sensitivity ..... 1.6 mV/Pa  
Pick-up pattern ..... cardioid  
Max. SPL ..... 150 dB SPL

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### 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 frequencies accessible in 25 kHz steps. The wireless microphone receiver must feature one balanced XLR output with a max. output of +18 dBu, and one unbalanced 1/4" output with a max. output of +12 dBu. 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 twenty (20) 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. The wireless microphone receiver must accept 12V DC power via BNC antenna inputs.

### Limited Product Warranty/Service

Sennheiser Electronic Corporation extends the following limited product warranty for Sennheiser products:

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