

# SK 100 G3

## Wireless bodypack transmitter

### FEATURES

- Sturdy metal housing
- 42 MHz bandwidth: 1680 tunable UHF frequencies for interference-free reception
- Enhanced frequency bank system with up to 12 compatible frequencies
- Pilot tone squelch for eliminating RF interference when transmitter is turned off
- Enhanced AF frequency range
- Increased range for audio sensitivity
- Wireless synchronization of transmitters via infrared interface from receiver
- User-friendly menu operation with more control options
- Illuminated graphic display
- Auto-Lock function avoids accidental changing of settings
- HDX compander for crystal-clear sound
- Transmitter features battery indication in 4 steps, also shown on receiver display
- Programmable Mute function
- Contacts for recharging BA 2015 accupack directly in the transmitter
- Wide range of accessories adapts the system to any requirement
- Optimized PLL synthesizer and micro-processor technology
- True diversity technology
- Increased immunity to intermodulation and interferences in multi-channel operation

The wireless body-pack standard gets even better. Sennheiser has packed many useful features in the 158 g weight of the SK 100 G3. The SK 100 G3 has an easy-to-read graphic display, infrared sync, charging contacts, cable emulation, RF mute, an intuitive menu and much more. As features alone are no substitute for audio quality, the AF frequency response was expanded to 25–18,000 Hz for the truest sound.



### TECHNICAL DATA

Modulation .....	wideband FM
Frequency ranges.....	516–558, 566–608, 626–668, 734–776, 780–822, 823–865 MHz
Transmission frequencies .....	1,680 frequencies, tuneable in steps of 25 kHz 20 frequency banks, each with up to 12 factory preset channels 1 frequency bank with up to 12 user programmable channels
Switching bandwidth.....	42 MHz
Nominal/peak deviation .....	±24 kHz/±48 kHz
Frequency stability .....	≤ ±15 ppm
RF output power at 50 Ω.....	typ. 30 mW
Pilot tone squelch .....	can be switched off
Compander system.....	Sennheiser HDX
AF frequency response .....	microphone: 80 – 18,000 Hz line: 25 – 18,000 Hz
Signal-to-noise ratio (1 mV, peak deviation) ...	≥ 110 dBA
THD.....	≤ 0.9 %
Max. input voltage microphone/line.....	3 Vrms
Input impedance microphone/line .....	40 kΩ, unbalanced/1 MΩ
Input capacitance.....	switchable
Adjustment range of input sensitivity .....	60 dB, adjustable in 3-dB steps
Temperature range.....	–10°C to +55°C
Power supply.....	2 AA size batteries, 1.5 V or BA 2015 accupack
Nominal voltage.....	2.4 V

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### ARCHITECT'S SPECIFICATIONS

The compact bodypack transmitter shall be for use with a companion receiver as part of a wireless RF transmission system.

The transmitter shall operate within six UHF frequency ranges, each with a 42 MHz switching bandwidth: 516–558 MHz, 566–608 MHz, 626–668 MHz, 734–776 MHz, 780–822 MHz, 823–865 MHz; transmission frequencies shall be 1,680 per range and shall be tunable in 25 kHz steps. The transmitter shall feature 20 fixed frequency banks with up to 12 compatible frequency presets and 1 user bank with up to 12 user programmable frequencies.

Nominal/peak deviation shall be  $\pm 24$  kHz/ $\pm 48$  kHz. Frequency stability shall be  $\leq \pm 15$  ppm.

RF output power at 50  $\Omega$  shall be 30 mW (typical).

The transmitter shall incorporate the Sennheiser HDX compander system and a defeatable pilot tone squelch. The microphone/line input shall utilize a lockable 3.5 mm jack socket.

The audio frequency response shall range from 80–18,000 Hz (microphone) or 25–18,000 Hz (line). Maximum input voltage shall be 3 Vrms (microphone/line). Input impedance shall be 40 k $\Omega$  unbalanced (microphone) or 1 M $\Omega$  (line). Input capacitance shall be switchable. The input sensitivity shall be adjustable within a 60 dB range in steps of 3 dB. Signal-to-noise ratio at 1 mV and peak deviation shall be  $\geq 110$  dBA. Total harmonic distortion (THD) shall be  $\leq 0.9$  %. The transmitter shall be menu-driven with a backlit LC display showing the current frequency, frequency bank and channel number, metering of AF level, transmission status, lock status, pilot tone transmission, muting function, and battery status. An auto-lock feature shall be provided to prevent settings from being accidentally altered.

The transmitter parameters shall be programmable in the transmitter menu. Receiver parameters such as receiving frequency, receiver name and pilot tone setting shall be synchronizable with the transmitter via an integrated infrared interface.

Power shall be supplied to the transmitter 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 180 mA (30 mW) at nominal voltage;  $\leq 25$   $\mu$ A when transmitter is switched off. Operating time shall be typical 8 hours. The transmitter 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 160 grams (5.46 oz). Operating temperature shall range from  $-10^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  ( $+14^{\circ}\text{F}$  to  $+131^{\circ}\text{F}$ ). The transmitter shall be the Sennheiser SK 100 G3.

### TECHNICAL DATA

Current consumption:

at nominal voltage .....typ. 180 mA (30 mW)

with switched-off transmitter ..... $\leq 25$   $\mu$ A

Operating time .....typ. 8 hrs

Dimensions .....approx. 82 mm x 64 mm x 24 mm

Weight (incl. batteries) .....approx. 160 g

Connections .....3.5 mm jack socket

#### DELIVERY INCLUDES

1 SK 100 G3 bodypack transmitter

2 AA size batteries, 1.5 V

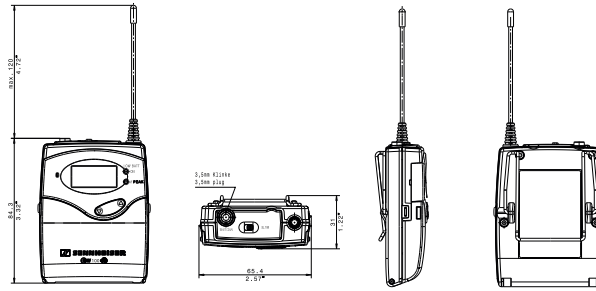
1 Instruction manual

1 Frequency information sheet

1 RF licensing information sheet

# SK 100 G3 Wireless bodypack transmitter

## DIMENSIONS



## PRODUCT VARIANTS

SK 100 G3-A – 516...558 MHz	Cat. No. 503126
SK 100 G3-G – 566...608 MHz	Cat. No. 503538
SK 100 G3-B – 626...668 MHz	Cat. No. 503539
SK 100 G3-C – 734...776 MHz	Cat. No. 503540
SK 100 G3-D – 780...822 MHz	Cat. No. 503541
SK 100 G3-D-X – 780...822 MHz / Germany	Cat. No. 503542
SK 100 G3-E – 823...865 MHz	Cat. No. 503543
SK 100 G3-E-X – 823...865 MHz / Germany	Cat. No. 503544
SK 100 G3-K-X – 925...932 MHz / Korea	Cat. No. 505534

## RECOMMENDED ACCESSORIES

BA 2015 – Accupack	Cat. No. 009950
L 1039-10 – Charger	Cat. No. 505632
L 2015 – Charger	Cat. No. 009828
CC 3 – System case	Cat. No. 503168
BPP 1 – Bodypack pouch	Cat. No. 009825
DC 2 – Power adapter (12 V DC)	Cat. No. 009827
CI 1 – Instrument cable (with ¼" (6.3 mm) jack plug)	Cat. No. 005021
CI 2 – Line cable (with XLR-3F connector)	Cat. No. 004840
1-EW – Earworn microphone, black, 3.5 mm jack plug	Cat. No. 504232
1-EW-3 – Earworn microphone, beige, 3.5 mm jack plug	Cat. No. 504233
4-EW – Earworn microphone, black, 3.5 mm jack plug	Cat. No. 504236
4-EW-3 – Earworn microphone, beige, 3.5 mm jack plug	Cat. No. 504237
MKE 1-EW – Clip-on microphone, black, 3.5 mm jack plug	Cat. No. 502876

MKE 1-EW-1 – Clip-on microphone, white, 3.5 mm jack plug	Cat. No. 502877
MKE 1-EW-2 – Clip-on microphone, brown, 3.5 mm jack plug	Cat. No. 502878
MKE 1-EW-3 – Clip-on microphone, beige, 3.5 mm jack plug	Cat. No. 502879
MKE 2-EW Gold – Clip-on microphone, black, 3.5 mm jack plug	Cat. No. 09831
MKE 2-EW-3 Gold – Clip-on microphone, beige, 3.5 mm jack plug	Cat. No. 09832
MKE 40-EW – Clip-on microphone, black, 3.5 mm jack plug	Cat. No. 500527
HSP 4-EW – Headmicrophone, black, thin connection cable, 3.5 mm jack plug	Cat. No. 09867
HSP 4-EW-M – Headmicrophone, black, thin connection cable, 3.5 mm jack plug, shorter microphone boom and smaller neckband	Cat. No. 500699
HSP 4-EW-3 – Headmicrophone, beige, thin connection cable, 3.5 mm jack plug	Cat. No. 09873
HSP 4-EW-3-M – Headmicrophone, beige, thin connection cable, 3.5 mm jack plug, shorter microphone boom and smaller neckband	Cat. No. 500698
HSP 2-EW – Headmicrophone, black, thin connection cable, 3.5 mm jack plug	Cat. No. 09866
HSP 2-EW-M – Headmicrophone, black, thin connection cable, 3.5 mm jack plug, shorter microphone boom and smaller neckband	Cat. No. 500693
HSP 2-EW-3 – Headmicrophone, beige, thin connection cable, 3.5 mm jack plug	Cat. No. 09872
HSP 2-EW-3-M – Headmicrophone, beige, thin connection cable, shorter microphone boom and smaller neckband	Cat. No. 500692
EW MIC BAG – evolution wireless bag holds (1) EM, (1) SK and (1) SKM (USEWNICBAG)	