

# SKM 100-835 G3

# SKM 100-845 G3

# SKM 100-865 G3 Handheld vocal radio microphone

## 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 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
- Battery indication in 4 steps, also shown on receiver display
- Easy-exchangeable microphone modules from evolution series
- 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

Now with infrared sync function, the **SKM 100-835 G3** can tune to a G3 receiver with a simple push of the receivers sync button. Compatible with ew 100 G3 receivers and every vocal style, this handheld transmitter/microphone combination provides wireless freedom to both performers and presenters alike. With rugged design and powerful sound, it is ideally suited for the stage as it is in the auditorium. Newly revised features such as the enhanced graphic display, easily swappable capsule and included charging contacts make the SKM100-835 G3 a solid choice.



The **SKM 100-845 G3** raises the bar with its integral sync function. The transmitter automatically adjusts to a corresponding G3 receiver with a simple push of the receivers sync button. The capsule is based on the evolution 800 series, providing rich sound while minimizing the risk of feedback. The directivity of the mic reproduces the voice clearly while rejecting ambient background noise; this makes it a great choice where feedback may be an issue. Perhaps you want a different pick-up pattern or sound characteristic? The newly developed G3 microphone heads can be changed out in seconds without tools.



Merging high-tech features with easy setup, the **SKM 100-865 G3** features an evolution condenser capsule coupled with all the upgraded benefits of the G3 series. The wireless sync function allows the transmitter to sync up to a G3 receiver with a simple push of a button, making setup simple. Expanded frequency response means a more precise sound quality to ensure that you deliver an unforgettable performance.



# SKM 100-835 G3, SKM 100-845 G3, SKM 100-865 G3 Handheld vocal radio microphone

## ARCHITECT'S SPECIFICATIONS

The handheld vocal radio microphone shall be for use with a companion receiver as part of a wireless RF transmission system. The radio microphone 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 radio microphone 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 radio microphone shall incorporate the Sennheiser HDX compander system and a defeatable pilot tone squelch. Audio frequency response shall range from 80–18,000 Hz. Signal-to-noise ratio at 1 mV and peak deviation shall be  $\geq 110$  dBA. Total harmonic distortion (THD) shall be  $\leq 0.9\%$ . Input sensitivity shall be adjustable within a 48 dB range in steps of 6 dB. The radio microphone 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 radio microphone parameters shall be programmable in the radio microphone menu. Receiver parameters such as receiving frequency, receiver name and pilot tone setting shall be synchronizable with the radio microphone via an integrated infrared interface.

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## TECHNICAL DATA

Modulation .....	wideband FM
RF 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 .....	$\pm 24$ kHz/ $\pm 48$ kHz
Frequency stability .....	$\leq \pm 15$ ppm
RF output power at 50 $\Omega$ .....	typ. 30 mW
Pilot tone squelch .....	can be switched off
Compander system.....	Sennheiser HDX
AF frequency response .....	80–18,000 Hz
Signal-to-noise-ratio (1mV, peak deviation) ...	$\geq 110$ dBA
Total harmonic distortion (THD) .....	$\leq 0.9\%$
Adjustment range of input sensitivity .....	48 dB, adjustable in 6-dB steps
Temperature range.....	$-10^{\circ}\text{C}$ to $+55^{\circ}\text{C}$
Power supply.....	2 AA size batteries, 1.5 V or BA 2015 accupack
Nominal voltage.....	2.4 V
Current consumption:	
at nominal voltage .....	typ. 180 mA (30 mW)
with switched-off radio microphone.....	$\leq 25$ $\mu\text{A}$
Operating time .....	typ. 8 hrs
Dimensions .....	approx. $\varnothing$ 50 mm (2") x 265 mm (10.4")
Weight (incl. batteries) .....	approx. 450 g (15.9 oz)
<b>SKM 100-835 G3</b>	
Transducer/microphone type .....	dynamic
AF sensitivity .....	2.1 mV/Pa
Sound pressure level (SPL) .....	154 dB(SPL) max.
Pick-up pattern.....	cardioid

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## SKM 100-835 G3, SKM 100-845 G3, SKM 100-865 G3 Handheld vocal radio microphone

### ARCHITECT'S SPECIFICATIONS

Power shall be supplied to the radio microphone 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;  $\leq 25 \mu\text{A}$  when radio microphone is switched off. Operating time shall be typical 8 hours. The radio microphone shall have a rugged metal housing; dimensions shall be approximately 50 mm (1.97") in diameter and 265 mm (10.43") in length. Weight including the batteries shall be approximately 450 grams (15.87 oz). Operating temperature shall range from  $-10^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  ( $+14^{\circ}\text{F}$  to  $+131^{\circ}\text{F}$ ). A range of microphone heads shall be available for the radio microphone. The radio microphone shall be the Sennheiser SKM 300 G3.

The microphone head shall be a dynamic type designed for use with the ew G3 handheld radio microphones. It shall have a cardioid pick-up pattern and a sensitivity of 2.1 mV/Pa. Maximum sound pressure level shall be 154 dB SPL. The microphone head shall be the Sennheiser MMD 835-1.

The microphone head shall be a dynamic type designed for use with the ew G3 handheld radio microphones. It shall have a super-cardioid pick-up pattern and a sensitivity of 1.6 mV/Pa. Maximum sound pressure level shall be 154 dB SPL. The microphone head shall be the Sennheiser MMD 845-1.

The microphone head shall be a condenser type designed for use with the ew G3 handheld radio microphones. It shall have a super-cardioid pick-up pattern and a sensitivity of 1.6 mV/Pa. Maximum sound pressure level shall be 152 dB SPL. The microphone head shall be the Sennheiser MME 865-1.

### TECHNICAL DATA

#### SKM 100-845 G3

Transducer / microphone type .....dynamic  
AF sensitivity .....1.6 mV/Pa  
Sound pressure level (SPL) .....154 dB(SPL) max.  
Pick-up pattern.....super-cardioid

#### SKM 100-865 G3

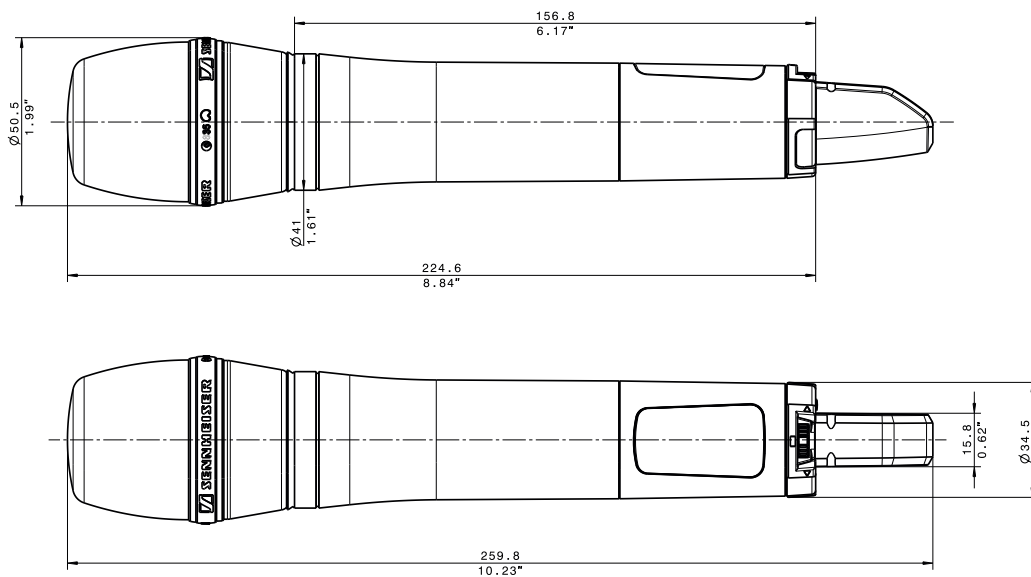
Transducer / microphone type .....electret-condenser  
AF sensitivity .....1.6 mV/Pa  
Sound pressure level (SPL) .....152 dB(SPL) max.  
Pick-up pattern.....super-cardioid

#### DELIVERY INCLUDES

1 SKM 100 G3 radio microphone incl. microphone head  
2 AA size batteries, 1.5 V  
1 Microphone clamp  
1 Instruction manual  
1 Frequency information sheet  
1 RF licensing information sheet

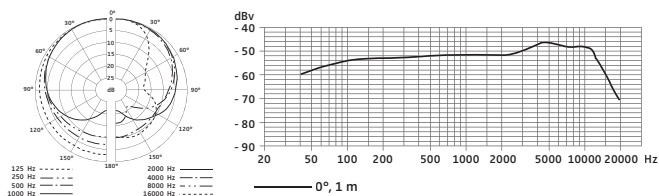
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## DIMENSIONS

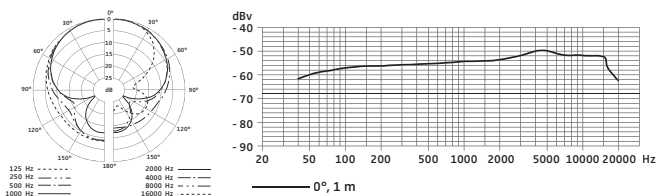


## FREQUENCY RESPONSE AND POLAR PATTERN

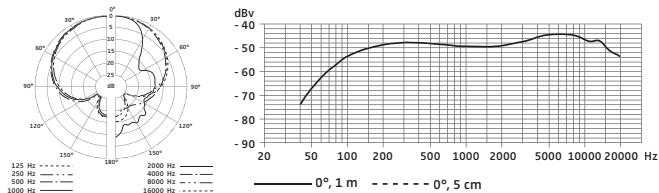
SKM 100-835 G3



SKM 100-845 G3



SKM 100-865 G3



# SKM 100-835 G3, SKM 100-845 G3, SKM 100-865 G3 Handheld vocal radio microphone

## PRODUCT VARIANTS

### SKM 100-835 G3

SKM 100-835 G3-A – Frequency range 516...558 MHz	Cat. No. 503127
SKM 100-835 G3-G – Frequency range 566...608 MHz	Cat. No. 503555
SKM 100-835 G3-B – Frequency range 626...668 MHz	Cat. No. 503556
SKM 100-835 G3-C – Frequency range 734...776 MHz	Cat. No. 503557
SKM 100-835 G3-D – Frequency range 780...822 MHz	Cat. No. 503558
SKM 100-835 G3-D-X – Frequency range 780...822 MHz / Germany	Cat. No. 503559
SKM 100-835 G3-E – Frequency range 823...865 MHz	Cat. No. 503560
SKM 100-835 G3-E-X – Frequency range 823...865 MHz / Germany	Cat. No. 503561
SKM 100-835 G3-K-X – Frequency range 925...932 MHz / Korea	Cat. No. 505537

### SKM 100-845 G3

SKM 100-845 G3-A – Frequency range 516...558 MHz	Cat. No. 503128
SKM 100-845 G3-G – Frequency range 566...608 MHz	Cat. No. 503563
SKM 100-845 G3-B – Frequency range 626...668 MHz	Cat. No. 503564
SKM 100-845 G3-C – Frequency range 734...776 MHz	Cat. No. 503565
SKM 100-845 G3-D – Frequency range 780...822 MHz	Cat. No. 503566
SKM 100-845 G3-D-X – Frequency range 780...822 MHz / Germany	Cat. No. 503567
SKM 100-845 G3-E – Frequency range 823...865 MHz	Cat. No. 503568
SKM 100-845 G3-E-X – Frequency range 823...865 MHz / Germany	Cat. No. 503569
SKM 100-845 G3-K-X – Frequency range 925...932 MHz / Korea	Cat. No. 505538

### SKM 100-865 G3

SKM 100-865 G3-A – Frequency range 516...558 MHz	Cat. No. 503129
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SKM 100-865 G3-G – Frequency range 566...608 MHz	Cat. No. 503571
SKM 100-865 G3-B – Frequency range 626...668 MHz	Cat. No. 503572
SKM 100-865 G3-C – Frequency range 734...776 MHz	Cat. No. 503573
SKM 100-865 G3-D – Frequency range 780...822 MHz	Cat. No. 503574
SKM 100-865 G3-D-X – Frequency range 780...822 MHz / Germany	Cat. No. 503575
SKM 100-865 G3-E – Frequency range 823...865 MHz	Cat. No. 503576
SKM 100-865 G3-E-X – Frequency range 823...865 MHz / Germany	Cat. No. 503577

## RECOMMENDED ACCESSORIES

### SKM 100-835 G3

CC 3 – Carrying case for evolution wireless G3 1/3/500 Series	Cat. No. 503168
EW MIC BAG – evolution wireless bag holds (1) EM, (1) SK and (1) SKM (USEWMICBAG)	
MMD 835-1 BK – e835 dynamic cardioid microphone module for G3 or 2000 Series SKM transmitters	Cat. No. 502575
MMD 845-1 BK – e845 dynamic super-cardioid microphone module for G3 or 2000 Series SKM transmitters	Cat. No. 502576
MMD 935-1 BK – e935 dynamic cardioid microphone module for G3 or 2000 Series SKM transmitters, black	Cat. No. 502577
MMD 935-1 BL – e935 dynamic cardioid microphone module for G3 or 2000 Series SKM transmitters, blue	Cat. No. 502578
MMD 945-1 BK – e945 dynamic super-cardioid microphone module for G3 or 2000 Series SKM transmitters, black	Cat. No. 502579
MMD 945-1 BL – e945 dynamic super-cardioid microphone module for G3 or 2000 Series SKM transmitters, blue	Cat. No. 502580
MME 865-1 BK – e865 polarized, condenser, super-cardioid microphone module for G3 or 2000 Series SKM transmitters	Cat. No. 502581
MMK 965-1 BK – e965 switchable condenser microphone module for G3 or 2000 Series SKM transmitter, black	Cat. No. 502582

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### RECOMMENDED ACCESSORIES

#### SKM 100-835 G3

MMK 965-1 BL – e965 switchable condenser microphone module for G3 or 2000 Series SKM transmitter, blue Cat. No. 502583

MMK 965-1 NI – e965 switchable condenser microphone module for G3 or 2000 Series SKM transmitter, nickel Cat. No. 502584

BA 2015 – Accupack Cat. No. 009950

L 2015 – Charger Cat. No. 009828

LA 2 – charging adapter Cat. No. 503162

MZW 1 – wind and pop shield Cat. No. 004839

MZQ – 1 microphone clamp Cat. No. 002155

#### SKM 100-845 G3

MMD 835-1 BK – e835 dynamic cardioid microphone module for G3 or 2000 Series SKM transmitters Cat. No. 502575

CC 3 – Carrying case for evolution wireless G3 1/3/500 Series Cat. No. 503168

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MMD 935-1 BL – e935 dynamic cardioid microphone module for G3 or 2000 Series SKM transmitters, blue Cat. No. 502578

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