

SKM 300-835 G3

SKM 300-845 G3

SKM 300-865 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 24 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
- Programmable Mute button
- 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
- Increased immunity to intermodulation and interferences in multi-channel operation
- Extended muting function due to MIC button on the radio microphone

The **SKM 300-835 G3** gives you both power and control with new features such as a convenient menu interface, vivid graphic display, and programmable mute button. You can program the mute button to support push-to-talk, push-to-mute, and more if you choose.

Designed for absolute reliability and impressive sound, this handheld transmitter/microphone combination makes it easy to concentrate on what is important: your own performance.



SKM 300-845 G3

The microphone capsule of this handheld transmitter/microphone combination is based on Sennheiser's successful evolution 800 series. Power and presence meet control as the super-cardioid capsule rejects feedback while providing a rich and detailed reproduction of the voice. A programmable mute button silences the microphone when needed or can also be set to act as a push-to-talk mode.



SKM 300-865 G3

This handheld transmitter/microphone combination provides the user with a tool that is both powerful and sensitive at the same time. Elite condenser technology reproduces vocal nuances reliably and precisely. The super-cardioid characteristic guarantees the least possible feedback. Finally, the programmable mute button offers the valuable option of silence when it is needed.



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 24 compatible frequency presets and 6 user banks with up to 24 user programmable frequencies. Nominal/peak deviation shall be ± 24 kHz/ ± 48 kHz. Frequency stability shall be $\leq \pm 15$ ppm. RF output power at 50 Ω shall be switchable between 10 mW (Low) and 30 mW (Standard). 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 ≥ 115 dBA. Total harmonic distortion (THD) shall be ≤ 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 either be configurable in the associated receiver's menu and synchronized with the radio microphone via an integrated infrared interface or shall be programmable in the radio microphone menu.

Continued on page 3

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 24 factory preset channels 6 frequency banks, each with up to 24 user programmable channels
Switching bandwidth.....	42 MHz
Nominal/peak deviation	± 24 kHz/ ± 48 kHz
Frequency stability	$\leq \pm 15$ ppm
RF output power at 50 Ω , switchable	typ. 10 mW (Low) typ. 30 mW (Standard)
Pilot tone squelch	can be switched off
Compander system.....	Sennheiser HDX
AF frequency response	80–18,000 Hz
Signal-to-noise ratio (1 mV, peak deviation) ...	≥ 115 dBA
THD.....	≤ 0.9 %
Adjustment range of input sensitivity	48 dB, adjustable in 6-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
Current consumption:	
at nominal voltage	typ. 180 mA (30 mW)
with switched-off radio microphone.....	≤ 25 μ 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)

SKM 300-835 G3

Transducer / microphone type	dynamic
AF sensitivity	2.1 mV/Pa
Sound pressure level (SPL)	154 dB(SPL) max.
Pick-up pattern.....	cardioid

Continued on page 3

SKM 300-835 G3, SKM 300-845 G3, SKM 300-865 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 accu-pack. 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°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 300-845 G3

Transducer / microphone typedynamic
AF sensitivity1,6 mV/Pa
Sound pressure level (SPL)154 dB(SPL) max.
Pick-up pattern.....super-cardioid

SKM 300-865 G3

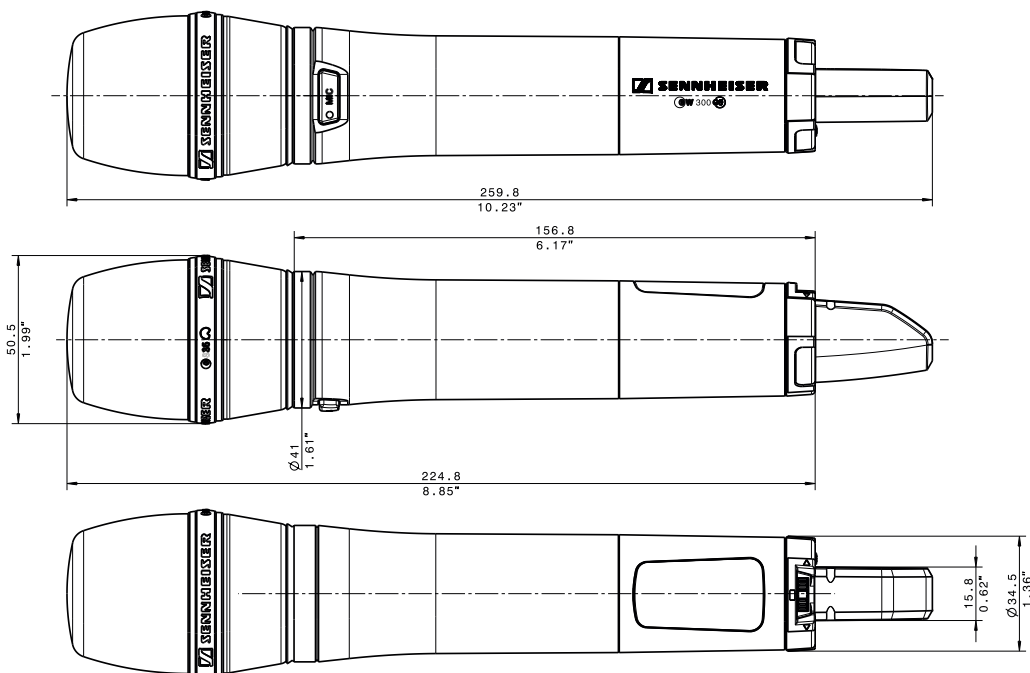
Transducer / microphone typeelectret-condenser
AF sensitivity1,6 mV/Pa
Sound pressure level (SPL)152 dB(SPL) max.
Pick-up pattern.....super-cardioid

DELIVERY INCLUDES

1 SKM 300 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

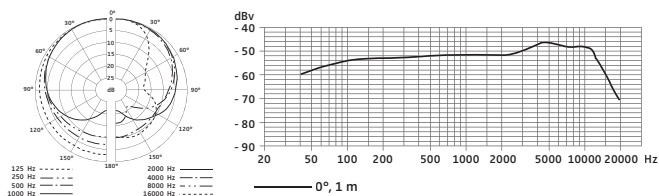
SKM 300-835 G3, SKM 300-845 G3, SKM 300-865 G3 Handheld vocal radio microphone

DIMENSIONS

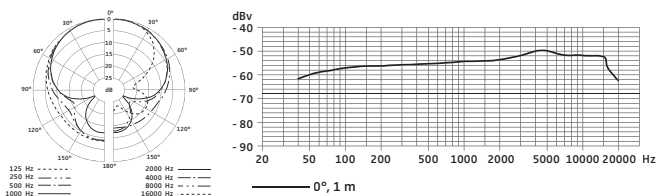


FREQUENCY RESPONSE AND POLAR PATTERN

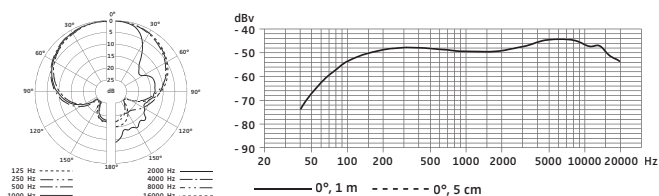
SKM 100-835 G3



SKM 100-845 G3



SKM 100-865 G3



SKM 300-835 G3, SKM 300-845 G3, SKM 300-865 G3 Handheld vocal radio microphone

PRODUCT VARIANTS

SKM 300-835 G3

SKM 300-835 G3-A – Frequency range 516...558 MHz	Cat. No. 503133
SKM 300-835 G3-G – Frequency range 566...608 MHz	Cat. No. 503611
SKM 300-835 G3-B – Frequency range 626...668 MHz	Cat. No. 503612
SKM 300-835 G3-C – Frequency range 734...776 MHz	Cat. No. 503613
SKM 300-835 G3-D – Frequency range 780...822 MHz	Cat. No. 503614
SKM 300-835 G3-D-X – Frequency range 780...822 MHz / Germany	Cat. No. 503615
SKM 300-835 G3-E – Frequency range 823...865 MHz	Cat. No. 503616
SKM 300-835 G3-E-X – Frequency range 823...865 MHz / Germany	Cat. No. 503617
SKM 300-835 G3-K-X – Frequency range 925...932 MHz / Korea	Cat. No. 505539

SKM 300-845 G3

SKM 300-845 G3-A – Frequency range 516...558 MHz	Cat. No. 503134
SKM 300-845 G3-G – Frequency range 566...608 MHz	Cat. No. 503620
SKM 300-845 G3-B – Frequency range 626...668 MHz	Cat. No. 503621
SKM 300-845 G3-C – Frequency range 734...776 MHz	Cat. No. 503622
SKM 300-845 G3-D – Frequency range 780...822 MHz	Cat. No. 503623
SKM 300-845 G3-D-X – Frequency range 780...822 MHz / Germany	Cat. No. 503624
SKM 300-845 G3-E – Frequency range 823...865 MHz	Cat. No. 503625
SKM 300-845 G3-E-X – Frequency range 823...865 MHz / Germany	Cat. No. 503626

SKM 300-865 G3

SKM 300-865 G3-A – Frequency range 516...558 MHz	Cat. No. 503135
SKM 300-865 G3-G – Frequency range 566...608 MHz	Cat. No. 503629

SKM 300-865 G3-B – Frequency range 626...668 MHz	Cat. No. 503630
SKM 300-865 G3-C – Frequency range 734...776 MHz	Cat. No. 503631
SKM 300-865 G3-D – Frequency range 780...822 MHz	Cat. No. 503632
SKM 300-865 G3-D-X – Frequency range 780...822 MHz / Germany	Cat. No. 503633
SKM 300-865 G3-E – Frequency range 823...865 MHz	Cat. No. 503634
SKM 300-865 G3-E-X – Frequency range 823...865 MHz / Germany	Cat. No. 503635

RECOMMENDED ACCESSORIES

SKM 300-835 G3

CC 3 – Carrying case for evolution wireless G3 1/3/500 Series	Cat. No. 503168
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
MMK 965-1 BL – e965 switchable condenser microphone module for G3 or 2000 Series SKM transmitter, blue	Cat. No. 502583

Continued on page 6

SKM 300-835 G3, SKM 300-845 G3, SKM 300-865 G3 Handheld vocal radio microphone

RECOMMENDED ACCESSORIES

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 300-845 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

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 300-865 G3

CC 3 – Carrying case for evolution wireless G3 1/3/500 Series

Cat. No. 503168

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

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