

SKM 500-935 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 32 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
- Battery indication in 4 steps, also shown on receiver display

The best handheld evolution transmitters meet the best microphone capsules. All 500-series handheld transmitters are equipped with user-swappable capsules from the successful Sennheiser evolution 900 stage line standard. This combines intelligent G3 wireless features with powerful, cutting sound. Standard charging contacts are included to recharge the optional rechargeable battery. G3 wireless and evolution 900 series capsules work in harmony to ensure your performance is heard with the best audio possible.



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 32 factory preset channels 6 frequency banks, each with up to 32 user programmable channels
Switching bandwidth.....	42 MHz
Nominal/peak deviation	±24 kHz/±48 kHz
Frequency stability	≤ ±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

Continued on page 2

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TECHNICAL DATA

Current consumption:

at nominal voltagetyp. 180 mA (30 mW)

with switched-off radio microphone..... $\leq 25 \mu\text{A}$

Operating timetyp. 8 hrs

Dimensionsapprox. $\varnothing 50 \text{ mm}$ (2")

x 265 mm (10.4")

Weight (incl. batteries)approx. 450 g (15.9 oz)

Transducer / microphone typedynamic

AF sensitivity2.5 mV/Pa

Sound pressure level (SPL)154 dB(SPL) max.

Pick-up pattern.....cardioid

DELIVERY INCLUDES

1 SKM 500 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

1 HHP 2 pouch

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 32 compatible frequency presets and 6 user banks with up to 32 user programmable frequencies.

Nominal/peak deviation shall be $\pm 24 \text{ kHz}/\pm 48 \text{ kHz}$. Frequency stability shall be $\leq \pm 15 \text{ ppm}$. RF output power at 50Ω 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 $\geq 115 \text{ dBA}$.

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 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.

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°C to $+55^\circ\text{C}$ ($+14^\circ\text{F}$ to $+131^\circ\text{F}$).

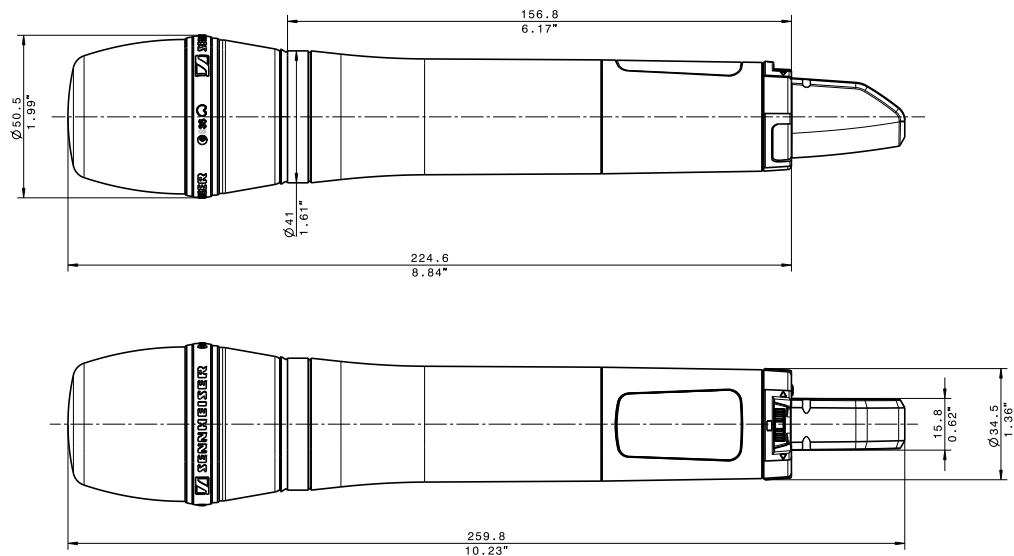
A range of microphone heads shall be available for the radio microphone.

The radio microphone shall be the Sennheiser SKM 300 G3.

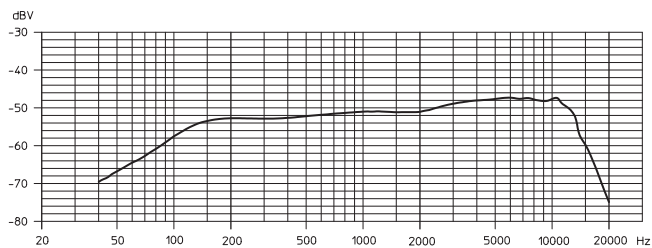
The microphone head shall be a dynamic type designed for use with the ew G3 handheld radio microphones. It shall have a cardioid pick-up pattern and a sensitivity of 2.5 mV/Pa. (Achtung: abweichende Angabe bei Sensitivity in den TD auf der Sennheiser Website) Maximum sound pressure level shall be 154 dB SPL. The microphone head shall be the Sennheiser MMD 935-1.

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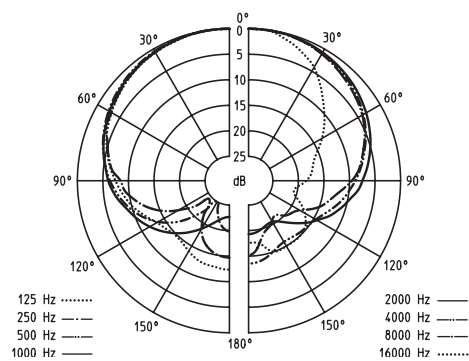
DIMENSIONS



FREQUENCY RESPONSE



POLAR PATTERN



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PRODUCT VARIANTS

SKM 500-935 G3-A – Frequency range 516...558 MHz	Cat. No. 503140
SKM 500-935 G3-G – Frequency range 566...608 MHz	Cat. No. 503692
SKM 500-935 G3-B – Frequency range 626...668 MHz	Cat. No. 503693
SKM 500-935 G3-C – Frequency range 734...776 MHz	Cat. No. 503694
SKM 500-935 G3-D – Frequency range 780...822 MHz	Cat. No. 503695
SKM 500-935 G3-D-X – Frequency range 780...822 MHz / Germany	Cat. No. 503696
SKM 500-935 G3-E – Frequency range 823...865 MHz	Cat. No. 503697
SKM 500-935 G3-E-X – Frequency range 823...865 MHz / Germany	Cat. No. 503698
SKM 500-935 G3-K-X – Frequency range 925...932 MHz / Korea	Cat. No. 505540

RECOMMENDED ACCESSORIES

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 945-1 BK – e945 dynamic super-cardioid
microphone module for G3 or 2000 Series
SKM transmitters, black Cat. No. 502579

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