FEATURES

- Sturdy metal housing
- 42 MHz bandwidth: 1680 tunable UHF frequencies for interference-free reception
- 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 microprocessor technology
- Increased immunity to intermodulation and interferences in multi-channel operation

SKM 500 G3 945

■ Enhanced frequency bank system with up to 32 compatible frequencies

SKM 500 G3 965

■ Enhanced frequency bank system with up to 32 compatible frequencies

SKM 500 G3 945

The SKM 500 handheld transmitter features high RF transmission power for extra-reliable reception. Even more impressive is the sound of the super-cardioid microphone capsule which is highly feedback-resistant. Built-in charging contacts can charge the optional rechargeable battery by simply placing the mic on

the optional charger. With Germanengineered components from stagetested technology, the SKM 500-945 G3 is made for performances that leave a lasting impression.



SKM 500 G3 965

With its ultra-reliable performance and professional features like 32 frequency presets per range, the SKM 500 handheld transmitter is a true marvel of audio technology. While the G3 wireless technology is impressive, the real star of this combination is clearly the true condenser evolution 965 microphone. The uniquely resonant and distortion-free sound of the large diaphragm dual-capsule microphone lets the singing voice become an authentic and intimate experience for any audience. Experience a studio-quality true-condenser microphone that is designed for wireless stage use. The 965

capsule can be switched between cardioid and super-cardioid patterns, making it versatile for a wide variety of styles.



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 ± 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 \geq 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 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 | |
| AF frequency response | |
| Signal-to-noise ratio (1 mV, peak deviation | n)≥ 115 dBA |
| THD | |
| Adjustment range of input sensitivity | 48 dB, adjustable in 6-dB steps |
| | 10051 |
| Temperature range | |
| Power supply | |
| Manager Landing | BA 2015 accupack |
| Nominal voltage | 2.4 V |
| Current consumption: | tura 100 ma A (20 maNA) |
| at nominal voltage | |
| with switched-off radio microphone | |
| Operating time | 71 |
| Dimensions | • • |
| Weight (incl. batteries) | x 265 mm (10.4") |
| weight (incl. batteries) | approx. 450 g (15.9 02) |
| | |

SKM 500 G3 945

| Transducer / microphone type | dynamic |
|------------------------------|------------------|
| AF sensitivity | 1.8 mV/Pa |
| Sound pressure level (SPL) | 154 dB(SPL) max. |
| Pick-up pattern | super-cardioid |

Continued on page 3



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; ≤ 25 µA 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 °C (+14 °F to +131 °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 supercardioid pick-up pattern and a sensitivity of 1.8 mV/Pa. Maximum sound pressure level shall be 154 dB SPL. The microphone head shall be the Sennheiser MMD 945-1.

The microphone head shall be an externally polarized large dual-diaphragm AF condenser designed for use with the ew G3 handheld radio microphones. It shall have a switchable pick-up pattern (cardioid/supercardioid). Sensitivity (free field, no load) shall be 7 mV/Pa at 1 kHz or 2.2 mV/Pa at 1 kHz with preattenuation. Maximum SPL shall be 144 dB or 154 dB with preattenuation. The microphone head shall be the Sennheiser MMK 965-1.

TECHNICAL DATA

SKM 500 G3 965

Transducer/microphone typeexternally polarized dual diaphram condenser microphone

AF sensitivity (free field, no load at1 kHz)

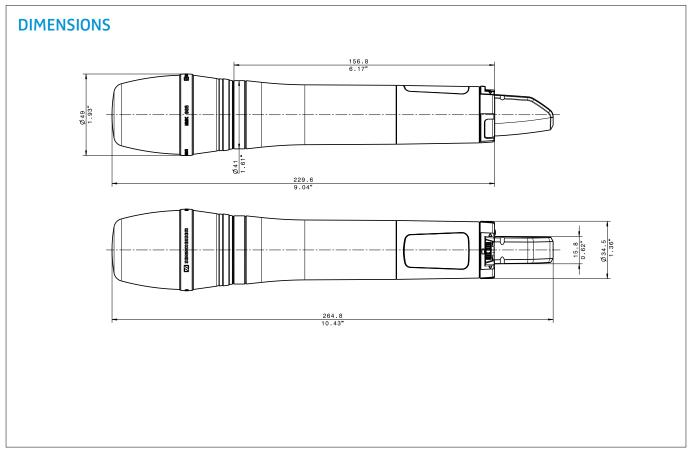
Sound pressure level (SPL)144/154 dB(SPL) max.

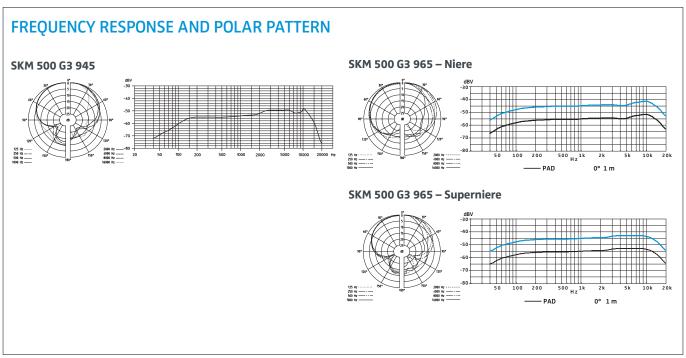
Pick-up pattern.....cardioid/super-cardioid, switchable

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







| PRODUCT VARIANTS SKM 500 G3 945 | | MMD 835-1 BK – e835 dynamic cardioid microphone module for G3 or 2000 Series | |
|---|-----------------|---|------------------|
| SKM 500-945 G3-A — | | SKM transmitters | Cat. No. 502575 |
| Frequency range 516558 MHz | Cat. No. 503141 | MMD 845-1 BK – e845 dynamic super-cardio | oid |
| SKM 500-945 G3-G – | | microphone module for G3 or 2000 Series | |
| Frequency range 566608 MHz | Cat. No. 503701 | SKM transmitters | Cat. No. 502576 |
| SKM 500-945 G3-B – | | MMD 935-1 BK – e935 dynamic cardioid | |
| Frequency range 626668 MHz | Cat. No. 503702 | microphone module for G3 or 2000 Series SKM transmitters, black | Cat. No. 502577 |
| SKM 500-945 G3-C – | | SKM transmitters, black | cat. No. 302377 |
| Frequency range 734776 MHz | Cat. No. 503703 | MMD 945-1 BK – e945 dynamic super-cardio | oid |
| SKM 500-945 G3-D – | | microphone module for G3 or 2000 Series | |
| Frequency range 780822 MHz | Cat. No. 503704 | SKM transmitters, black | Cat. No. 502579 |
| SKM 500-945 G3-D-X – | | MME 865-1 BK – e865 polarized, condenser, | |
| Frequency range 780822 MHz / Germany | Cat. No. 503705 | super-cardioid microphone module for G3 or | |
| SKM 500-945 G3-E — | | 2000 Series SKM transmitters | Cat. No. 502581 |
| Frequency range 823865 MH | Cat. No. 503706 | MMK 965-1 BK – e965 switchable condense | r |
| SKM 500-945 G3-E-X – | 6 | microphone module for G3 or 2000 Series | C-1 N- 502502 |
| Frequency range 823865 MHz / Germany | Cat. No. 503/0/ | SKM transmitter, black | Cat. No. 502582 |
| SKM 500 G3 965 | | MMK 965-1 BL – e965 switchable condenser microphone module for G3 or 2000 Series Sk | |
| SKM 500-965 G3-A – | | transmitter, blue | Cat. No. 502583 |
| Frequency range 516558 MHz | Cat. No. 503142 | MMK 965-1 NI – e965 switchable condenser | |
| SKM 500-965 G3-G – | | microphone module for G3 or 2000 Series | |
| Frequency range 566608 MHz | Cat. No. 503710 | SKM transmitter, nickel | Cat. No. 502584 |
| SKM 500-965 G3-B – | | PA 201E accumack | Cat. No. 009950 |
| Frequency range 626668 MHz | Cat. No. 503711 | BA 2015 – accupack L 2015 – charger | Cat. No. 009930 |
| SKM 500-965 G3-C – | | LA 2 – charging adapter | Cat. No. 503162 |
| Frequency range 734776 MHz | Cat. No. 503712 | MZW 1 – wind and pop shield | Cat. No. 004839 |
| SKM 500-965 G3-D – | | MZQ 1 – microphone clamp | Cat. No. 002155 |
| Frequency range 780822 MHz | Cat. No. 503713 | | |
| SKM 500-965 G3-D-X – | | SKM 500 G3 965 | |
| Frequency range 780822 MHz / Germany | Cat. No. 503714 | CC 3 – Carrying case for evolution wireless | |
| SKM 500-965 G3-E – | | G3 1/3/500 Series | Cat. No. 503168 |
| Frequency range 823865 MHz | Cat. No. 503715 | MMD 835-1 BK – e835 dynamic cardioid | |
| SKM 500-965 G3-E-X – | | microphone module for G3 or 2000 Series | C . N . 500575 |
| Frequency range 823865 MHz / Germany | Cat. No. 503716 | SKM transmitters | Cat. No. 502575 |
| SKM 500-965 G3-K-X – | | MMD 845-1 BK – e845 dynamic super-cardio microphone module for G3 or 2000 Series | Jid |
| Frequency range: 925932 MHz / Korea | Cat. No. 505541 | SKM transmitters | Cat. No. 502576 |
| , | | MMD 935-1 BK – e935 dynamic cardioid | cat. No. 30237 c |
| | | microphone module for G3 or 2000 Series | |
| RECOMMENDED ACCESSORIES | | SKM transmitters, black | Cat. No. 502577 |
| SKM 500 G3 945 | | | |
| CC 3 — Carrying case for evolution wireless | | MMD 945-1 BK – e945 dynamic super-cardio | old |
| , , , | Cat. No. 503168 | microphone module for G3 or 2000 Series | |



RECOMMENDED ACCESSORIES

SKM 500 G3 965

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

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