



evolution wireless G4

Vocal Set - Special edition

with Neumann KK 205 super-cardioid condenser capsule



DESCRIPTION

The best of two brands. Sennheiser and Neumann bring the reliability of wireless transmission and the excellence of studio sound together. The KK 205 is a premium quality capsule head for professional Sennheiser handheld transmitters, now available with the evolution wireless G4 500 Series. The super-cardioid condenser capsule offers true Neumann sound, combined with the freedom of wireless operation and all the virtues of a rugged stage microphone: excellent pop protection, enormous SPL capability, and high feedback resistance.

Renowned sound engineers rely on ew 500 G4's flexibility, especially when handling multi-channel settings on the world's music stages. Up to 88 MHz bandwidth, up to 32 channels. Ethernet connection for Wireless Systems Manager (WSM) control software included for advanced frequency coordination in multi-channel setups.

FEATURES

- True diversity half-rack receiver in a full-metal housing with intuitive OLED display for full control
- Easy and flexible wireless synchronization between transmitter and receiver via infrared
- Up to 32 compatible channels
- Up to 88 MHz bandwidth with 3520 selectable frequencies, fully tunable in a stable UHF range
- Ethernet connection for Wireless Systems Manager (WSM) control software for advanced frequency coordination in multi-channel setups
- High RF output power (up to 50 mW, adjustable in three steps 10/30/50) depending on country regulations
- Microphone head KK 205 with excellent pop protection, enormous SPL capability, and high feedback resistance

DELIVERY INCLUDES

- EM 300-500 G4 rackmount receiver
- SKM 500 G4 handheld transmitter
- KK 205 super-cardioid condenser capsule
- NT 2-3 power supply
- GA3 rack kit set
- Microphone clamp

TECHNICAL DATA

EM 300-500 G4

Modulation
Frequency ranges

Receiving frequencies

Switching bandwidth
Nominal/peak deviation
Receiver principle
Sensitivity

Ad. channel selection
Intermodulation attenuation
Blocking
Squelch
Pilot tone squelch
Antenna inputs
Compander system

Signal-to-noise ratio
Total harmonic distortion
AF output voltage
6.3 mm jack socket

Setting range "AF Out"

Wideband FM

Aw+: 470 - 558 MHz, AS: 520 - 558 MHz
Gw1: 558 - 608 MHz, Gw: 558 - 626 MHz
GBw: 606 - 678 MHz, Bw: 526 - 698 MHz
Cw: 718 - 790 MHz, Dw: 790 - 865 MHz
JB: 806 - 810 MHz, K+: 925 - 937.5 MHz

Max. 2880 receiving frequencies, adjustable in 25 kHz steps
20 frequency banks, each with up to 32 factory-preset channels, no inter-modulation

6 frequency banks with up to 32 programmable channels

up to 88 MHz

± 24 kHz / ± 48 kHz

True diversity

(with HDX, peak deviation)

$< 2.5 \mu\text{V}$ for 52 dBA eff S/N

Typically ≥ 75 dB

Typically ≥ 70 dB

≥ 75 dB

5 to 25 dB μV , in steps of 2 dB

Can be switched off

2 BNC sockets

Sennheiser HDX

EQ presets (switchable, act on line and monitor outputs)

Preset 1: Flat, Preset 2: Low Cut (-3 dB at 180 Hz), Preset 3: Low Cut/High Boost

(-3 dB at 180 Hz, +6 dB at 10 kHz)

Preset 4: High Boost (+6 dB at 10 kHz)

(1 mV, peak deviation) ≥ 115 dBA

≤ 0.9 %

(at peak deviation, 1 kHz AF)

(unbalanced): +12 dBu

XLR socket

(balanced): +18 dBu

48 dB (3 dB steps)

**TECHNICAL DATA (CONTINUED)****EM 300-500 G4**

Temperature range	-10 °C to +55 °C
Power supply	12 V DC
Current consumption	350 mA
Dimensions	Approx. 202 x 212 x 43 mm
Weight	Approx. 980 g

SKM 500 G4

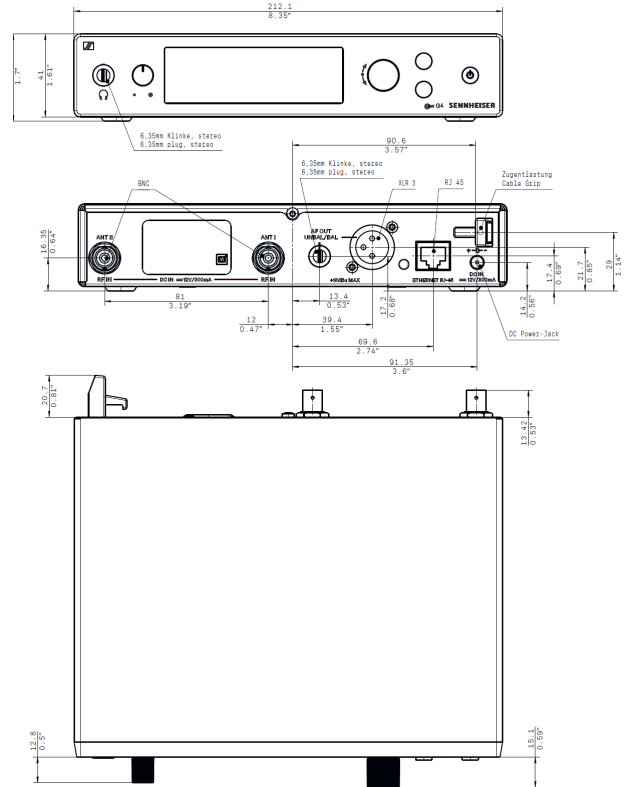
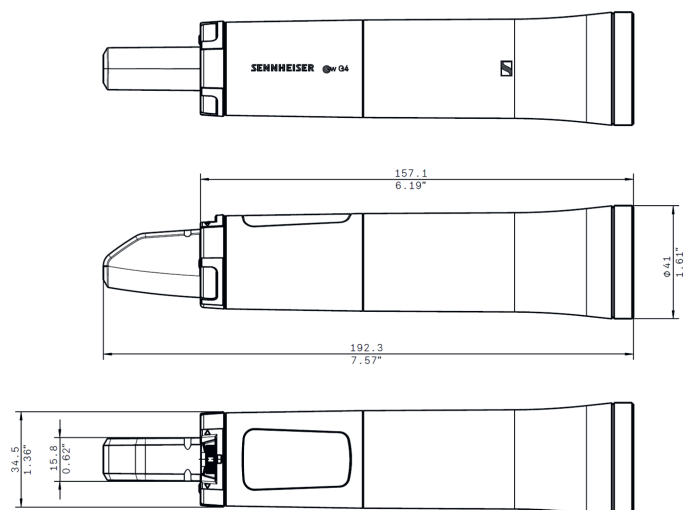
Modulation	Wideband FM
Frequency ranges	Aw+: 470 - 558 MHz, AS: 520 - 558 MHz Gw1: 558 - 608 MHz, Gw: 558 - 626 MHz GBw: 606 - 678 MHz, Bw: 526 - 698 MHz Cw: 718 - 790 MHz, Dw: 790 - 865 MHz JB: 806 - 810 MHz, K+: 925 - 937.5 MHz
Transmission frequencies	Max. 2880 frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 32 factory-preset channels, no intermodulation 6 frequency banks with up to 32 programmable channels

Switching bandwidth	up to 88 MHz
Nominal/peak deviation	±24 kHz / ±48 kHz
Frequency stability	≤ ±15 ppm
RF output power at 50 Ω	Switchable: Low: typ. 10 mW Standard: typ. 30 mW High: typ. 50 mW
Pilot tone squelch	Can be switched off
Comander system	Sennheiser HDX
AF frequency response	80 - 18,000 Hz
Signal-to-noise ratio	(1 mV, peak deviation) ≥ 115 dBA
Total harmonic distortion	≤ 0.9 %

Setting range for input sensitivity	48 dB, adjustable in 6 dB steps
Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V or BA 2015 accupack
Nominal voltage	3 V battery / 2.4 V rechargeable battery
Current consumption	at nominal voltage: typ. 180 mA with transmitter switched off: ≤ 25 µA
Operating time	Typically 8 h
Dimensions	Approx. Ø 50 x 265 mm
Weight (incl. batteries)	approx. 450 g

KK 205

Max. SPL	150 dB
Signal-to-noise ratio	70 dB
Sensitivity	2.8 mV/Pa

DIMENSIONS EM 300-500 G4**DIMENSIONS SKM 500 G4**



VARIANTS

Model Name	Art. No.	EAN	UPC	Assembled in
ew 500 G4-KK205-AW+	508551	4044155243789	615104323445	Germany
	508558	4044155243796	615104323582	USA
ew 500 G4-KK205-AS	508559	4044155243864	615104323926	USA
ew 500 G4-KK205-GW1	508560	4044155243871	615104323940	USA
ew 500 G4-KK205-GW	508552	4044155243833	615104323643	Germany
	508561	4044155243888	615104323957	USA
ew 500 G4-KK205-GBW	508553	4044155243840	615104323674	Germany
ew 500 G4-KK205-GW	508552	4044155243833	615104323643	Germany
	508561	4044155243888	615104323957	USA
ew 500 G4-KK205-BW	508554	4044155243857	615104323865	Germany
	508562	4044155243925	615104323995	USA
ew 500 G4-KK205-CW	508555	4044155243802	615104323612	Germany
	508563	4044155243932	615104324039	USA
ew 500 G4-KK205-DW	508556	4044155243819	615104323629	Germany
	508564	4044155243949	615104324053	USA
ew 500 G4-KK205-JB	508565	4044155243956	615104324060	USA
ew 500 G4-KK205-K+	508557	4044155243826	615104323636	Germany