

Best choice for your business, top of the class in education. The G4 300 Series uses the power of an increased switching bandwidth of up to 88 MHz. New frequency ranges allow to operate multi-channel setups with dozens of channels while securing reliable operation - despite digital dividend.

The best choice if you need a bodypack transmitter and maximum flexibility. This base set consists of the stationary receiver as well as a bodypack transmitter. Just add your favorite clip-on or headset microphone.

FEATURES

- Easy to use, fast setup time
- Integrated network port allows control, monitoring and setup via Sennheiser Control Cockpit and WSM Software
- Broad range of products and existing accessories (such as microphones) allows usage in any kind of environment
- Up to 88 MHz bandwidth, up to 32 channels
- Increased RF output power (10/30/50 mW)
- Transmission Range: up to 100 meters / 330 feet
- Compatible with wireless speaker system LSP 500 PRO
- RC (remote control) switch available for the bodypack transmitter

DELIVERY INCLUDES

- EM 300-500 G4 true diversity receiver
- SK 300 G4
- GA 3 rackmount set
- power supply
- 2 AA batteries
- 2 rod antennas
- quick guide
- safety guide
- manufacturer declaration sheet

ACCESSORIES

BA 2015	rechargeable battery	Art. no. 009950
L 2015	charger	Art. no. 009828
RMS 1	Remote mute switch	Art. no. 503164

SPECIFICATIONS

EM 300-500 G4 RF characteristics		Squelch	5 to 25 dBµV in steps of 2 dB
		Pilot tone squelch	Can be switched off
Modulation	Wideband FM	Antenna inputs	2 BNC sockets
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	AF characteristics	
		Compander system	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,
Receiving frequencies	Max. 3520 receiving frequencies, adjustable in 25 kHz steps		+6 dB at 10 kHz) Preset 4: High Boost (+6 dB at 10 kHz)
	20 frequency banks, each with up to 32 factory-pre- set channels, no intermo- dulation	Signal-to-noise ratio (1 mV, peak deviation)	≥ 115 dBA
		Total harmonic distortion (THD)	≤ 0.9 %
	6 frequency banks with up to 32 programmable channels	AF output voltage (at peak deviation, 1 kHz AF)	6.3 mm jack socket (unbalanced): +12 dBu XLR socket
Switching bandwidth	up to 88 MHz		(balanced): +18 dBu
Nominal/peak deviation	±24 kHz / ±48 kHz	Setting range "AF Out"	48 dB (3 dB steps)
Receiver principle	True diversity	Overall device	
Sensitivity (with HDX, peak deviation)	< 2.5 μV for 52 dBA $_{_{effS/N}}$	Temperature range	-10 °C to +55 °C
Adjacent channel selection	Typically ≥ 75 dB	Power supply	12 V DC
Intermodulation attenua-	Typically ≥ 70 dB	Current consumption	350 mA
tion		Dimensions	Approx. 202 x 212 x 43 mm
Blocking	≥ 75 dB	Weight	Approx. 980 g

CONNECTIONS



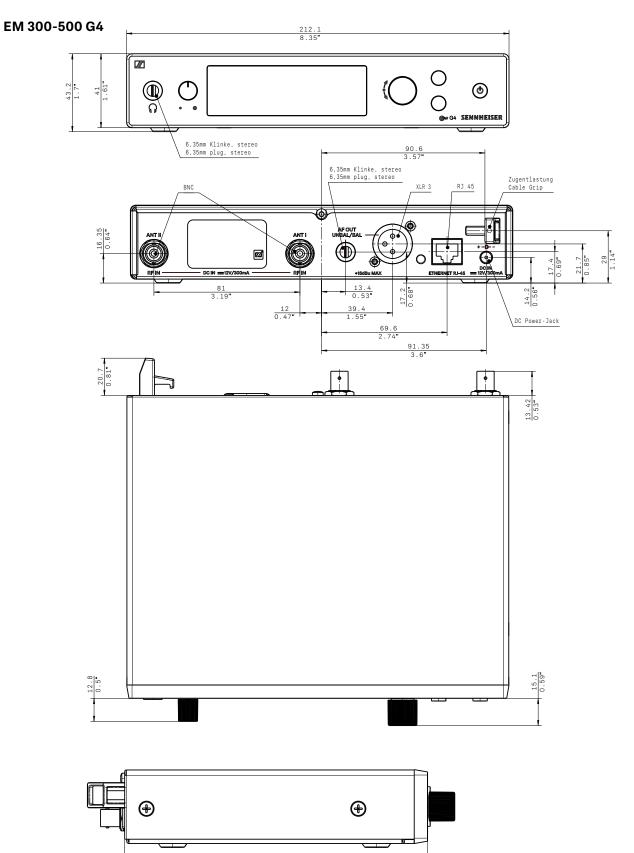
SPECIFICATIONS

SK 300 G4

RF characteristics		AF characteristics	
		Compander system	Sennheiser HDX
Modulation Frequency ranges	Wideband FM Aw+: 470 - 558 MHz	AF frequency response	Mic: 80 – 18,000 Hz Line: 25 – 18,000 Hz
	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	Signal-to-noise ratio (1 mV, peak deviation)	≥ 115 dBA
		Total harmonic distortion (THD)	≤ 0.9 %
		Max. microphone/line input voltage	$3 V_{eff}$
	JB: 806 - 810 MHz K+: 925 - 937.5 MHz	Microphone/line input impedance	40 k Ω , unbalanced / 1 M Ω
Transmission frequencies	Max. 3520 frequencies,	Input capacitance	Switchable
	adjustable in 25 kHz steps 20 frequency banks, each with up to 32 factory-pre- set channels, no intermo- dulation	Setting range for input sensitivity	60 dB, adjustable in 3 dB steps
		Overall device	
		Temperature range	-10 °C to +55 °C
	6 frequency banks with up to 32 programmable	Power supply	2 AA batteries, 1.5 V or BA 2015 accupack
	channels	Nominal voltage	3 V battery /
Switching bandwidth	up to 88 MHz		2.4 V rechargeable battery
Nominal/peak deviation	±24 kHz / ±48 kHz	Current consumption	at nominal voltage: typ. 180 mA with transmitter switched
Frequency stability	≤ ±15 ppm		
RF output power at 50 $\boldsymbol{\Omega}$	switchable: Low: typ. 10 mW Standard: typ. 30 mW High: typ. 50 mW		off: $\leq 25 \mu\text{A}$
		Operating time	Typically 8 h
		Dimensions	Approx. 82 x 64 x 24 mm
Pilot tone squelch	Can be switched off	Weight (incl. batteries)	approx. 160 g

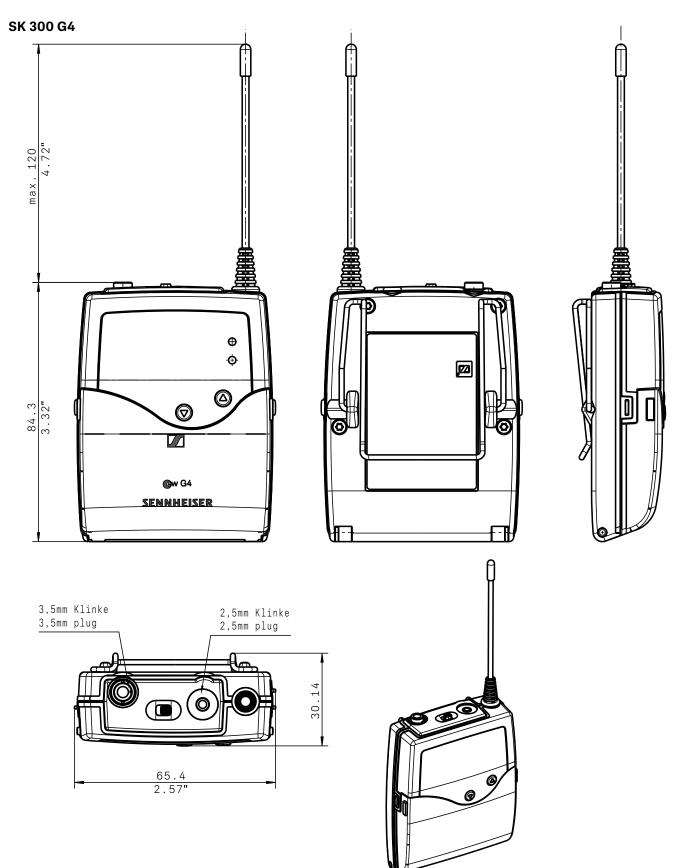


DIMENSIONS



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DIMENSIONS



PRODUCT VARIANTS

ew 300 G4-Base SK-RC-Aw+	470 - 558 MHz	Art. no. 509667
ew 300 G4-Base SK-RC-Aw30	470 - 558 MHz	Art. no. 509938
ew 300 G4-Base SK-RC-AS	520 - 558 MHz	Art. no. 509707
ew 300 G4-Base SK-RC-Gw1	558 - 608 MHz	Art. no. 509673
ew 300 G4-Base SK-RC-Gw	558 - 626 MHz	Art. no. 509656
ew 300 G4-Base SK-RC-GBw	606 - 678 MHz	Art. no. 509934
ew 300 G4-Base SK-RC-Bw	626 - 698 MHz	Art. no. 509657
ew 300 G4-Base SK-RC-Bw30	626 - 698 MHz	Art. no. 509939
ew 300 G4-Base SK-RC-Cw	718 - 790 MHz	Art. no. 509951
ew 300 G4-Base SK-RC-Cw-TH	748.2 - 757.8 MHz	Art. no. 509951
ew 300 G4-Base SK-RC-JB	806 - 810 MHz	Art. no. 509708
ew 300 G4-Base SK-RC-K+	925 - 937,5 MHz	Art. no. 509933
ew 300 G4-Base SK-RC-Dw	790 - 865 MHz	Art. no. 509710

ARCHITECT'S SPECIFICATION

A wireless RF transmission system designed for presentation use and other applications where maximum speech intelligibility is required.

The system shall consist of a stationary receiver and a bodypack transmitter.

The system shall operate within eleven UHF frequency ranges, with a switching bandwidth of up to 88 MHz: 470 – 558 MHz, 520 – 558 MHz, 558 – 608 MHz, 558 – 626 MHz, 606 – 678 MHz, 626 – 698 MHz, 718 – 790 MHz, 748.2 - 757.8 MHz, 790 – 865 MHz, 806 – 810 MHz, 925 – 937.5 MHz; receiving frequencies shall be 3520 per range and shall be tunable in 25 kHz steps. The system shall feature 20 fixed frequency banks with up to 32 compatible frequency presets and 6 user banks with up to 32 user programmable frequencies.

The receiver shall be menu-driven with a backlit OLED display showing the current frequency, frequency bank and channel number, metering of RF level, metering of AF level, lock status, pilot tone evaluation, muting function, and battery status of the associated transmitter. An auto-lock feature shall be provided to prevent settings from being accidentally altered. The receiver shall provide a sound check mode.

Some receiver parameters such as receiving frequency, receiver name and pilot tone setting shall be synchronizable with the associated transmitter via an integrated infrared interface.

The receiver shall feature a balanced XLR-3M audio output with a maximum output of +18 dBu along with an unbalanced ¼" (6.3 mm) audio output with a maximum output of +12 dBu. A headphone output with headphone volume control shall be provided and shall utilize a ¼" (6.3 mm) stereo jack socket. The receiver shall have an Ethernet port (RJ-45) for remote network-based monitoring and control using the Sennheiser Control Cockpit or the Sennheiser Wireless System Manager software. Two BNC-type input sockets shall be provided for connecting the antennas.

Nominal/peak deviation shall be ± 24 kHz/ ± 48 kHz. Squelch threshold shall be defeatable (off) or adjustable from 5 - 25 dBµV in steps of 2 dB.

The receiver shall incorporate the Sennheiser HDX compander system and a defeatable pilot tone squelch. Sensitivity shall be $< 2 \mu$ V for 52 dBA eff S/N with HDX engaged at peak deviation. Adjacent channel rejection shall be ≥ 75 dB (typical). Intermodulation attenuation shall be ≥ 70 dB (typical); blocking shall be ≥ 75 dB. Four selectable equalizer presets shall be provided: "Flat", "Low Cut" (-3 dB at 180 Hz), "Low Cut/High Boost" (-3 dB at 180 Hz/+5.5 dB at 10 kHz) and "High Boost" (+5.5 dB at 10 kHz). Signal-to-noise ratio at 1 mV and peak deviation shall be ≥ 115 dBA. Total harmonic distortion (THD) shall be ≤ 0.9 %. The audio output level shall be adjustable within a 48 dB range in steps of 3 dB.

The receiver shall operate on 12 V power supplied from the NT 2-3 CW mains unit (for 100 – 240 V AC, 50/60 Hz). Power consumption shall be 350 mA. The receiver shall have a rugged metal housing; dimensions shall be approximately 202 x 212 x 43 mm (7.95" x 8.35" x 1.69"). Weight shall be approximately 980 grams (2.16 lbs). Operating temperature shall range from -10 °C to +55 °C (+14 °F to +131 °F).

The receiver shall be the Sennheiser EM 300-500 G4.

The bodypack transmitter 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 bodypack transmitter parameters shall either be configurable in the associated receiver's menu and synchronized with the bodypack transmitter via an integrated infrared interface or shall be programmable in the bodypack transmitter menu.

The bodypack transmitter shall be equipped with a mute switch, which shall be switchable between "AF on/off", "RF on/off" and "Disabled" via the receiver's user interface. A 2.5 mm jack socket shall be provided for connecting a Sennheiser RMS 1 external mute switch. The settings for the external mute switch shall be switchable between "AF on/off", "RF on/off", "Push to mute" and "Push to talk" via the user interface.

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 50 Ω shall be switchable between 10 mW (typical, low) and 30 mW (typical, standard) and 50 mW (typical, high).

The bodypack transmitter shall incorporate the Sennheiser HDX compander system and a defeatable pilot tone squelch. Audio frequency response shall range from 80 – 18,000 Hz (microphone) or 25 - 18,000 Hz (line). Signal-to-noise ratio at 1 mV and peak deviation shall be \geq 115 dBA. Total harmonic distortion (THD) shall be \leq 0.9 %. Input sensitivity shall be adjustable within a 60 dB range in steps of 3 dB.

Power shall be supplied to the bodypack transmitter 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 at nominal voltage; $\leq 25 \,\mu$ A when bodypack transmitter is switched off. Operating time shall be typical 8 hours. The bodypack transmitter shall have a rugged metal housing; dimensions shall be approximately 82 x 64 x 24 mm (3.23" x 2.52" x 0.94"). Weight including the batteries shall be approximately 160 grams (5.64 oz). Operating temperature shall range from -10 °C to +55 °C (+14 °F to +131 °F).

The bodypack transmitter shall be the Sennheiser SK 300 G4-RC.