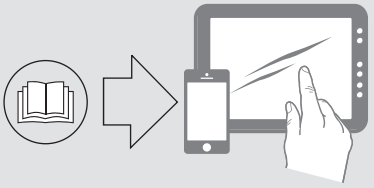




ew G4 Series

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SPECIFICATIONS

EM 100 G4 (True Diversity Receiver)

RF characteristics	
Modulation	Wideband FM
Frequency ranges	A1: 470 - 516 MHz A: 516 - 558 MHz AS: 520 - 558 MHz G: 566 - 608 MHz GB: 606 - 648 MHz B: 626 - 668 MHz C: 734 - 776 MHz D: 780 - 822 MHz E: 823 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz 1G8: 1785 - 1800 MHz
Receiving frequencies	Max. 1680 receiving frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 12 factory-preset channels 1 frequency bank with up to 12 programmable channels
Switching bandwidth	up to 42 MHz
Nominal/peak deviation	±24 kHz / ±48 kHz
Receiver principle	True diversity
Sensitivity (with HDX, peak deviation)	< 2.5 µV for 52 dBA eff S/N
Adjacent channel selection	Typically ≥ 65 dB
Intermodulation attenuation	Typically ≥ 65 dB
Blocking	≥ 70 dB
Squelch	low: 5 dBµV middle: 15 dBµV high: 25 dBµV
Pilot tone squelch	Can be switched off
Antenna inputs	2 BNC sockets
AF characteristics	
Compander system	Sennheiser HDX
EQ presets (switchable, act on line and monitor outputs):	• Preset 1: "Flat" • Preset 2: "Low Cut" • Preset 3: "Low Cut/ High Boost" • Preset 3: "High Boost"
Signal-to-noise ratio (1 mV, peak deviation)	≥ 110 dBA
Total harmonic distortion (THD)	≤ 0.9 %
AF output voltage (at peak deviation, 1 kHz AF)	6.3 mm jack socket (unbalanced): +12 dBu XLR socket (balanced): +18 dBu

Setting range "AF Out"	48 dB (3 dB steps)
Overall device	
Temperature range	-10 °C to +55 °C
Power supply	12 V DC
Current consumption	300 mA
Dimensions	Approx. 190 x 212 x 43 mm
Weight	Approx. 980 g

SK 100 G4 (Bodypack Transmitter) SKM 100 G4 | SKM 100-S G4 (Handheld Transmitter)

RF characteristics	
Modulation	Wideband FM
Frequency ranges	A1: 470 - 516 MHz A: 516 - 558 MHz A10: 516 - 558 MHz AS: 520 - 558 MHz G: 566 - 608 MHz GB: 606 - 648 MHz B: 626 - 668 MHz B10: 626 - 668 MHz C: 734 - 776 MHz D: 780 - 822 MHz E: 823 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz 1G8: 1785 - 1800 MHz
Transmission frequencies	1680 frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 12 factory-preset channels 1 frequency bank with up to 12 programmable channels
Switching bandwidth	up to 42 MHz
Nominal/peak deviation	±24 kHz / ±48 kHz
Frequency stability	≤ ±15 ppm
RF output power at 50 Ω	30 mW A10, B10, E, JB, K+, 1G8: limited to 10 mW
Pilot tone squelch	Can be switched off

AF characteristics	
Compander system	Sennheiser HDX
AF frequency response	SK 100 G4: Mic: 80 - 18,000 Hz Line: 25 - 18,000 Hz SKM 100(-S) G4: 80 - 18,000 Hz
Signal-to-noise ratio (1 mV, peak deviation)	≥ 110dBA
Total harmonic distortion (THD)	≤ 0.9 %
Max. microphone/line input voltage	3 V _{eff}
Microphone/line input impedance	40 kΩ, unbalanced / 1 MΩ
Input capacitance	Switchable
Setting range for input sensitivity	SK 100 G4 : 60 dB, adjustable in 3 dB steps SKM 100(-S) G4: 48 dB, adjustable in 6 dB steps

Overall device	
Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V (alkali manganese) or BA 2015 accupack
Nominal voltage	3 V battery / 2.4 V rechargeable battery
Current consumption:	
at nominal voltage	Typically 180 mA
with transmitter switched off	≤ 25 µA
Operating time	Typically 8 h
Dimensions	SK 100 G4: Approx. 82 x 64 x 24 mm SKM 100(-S) G4: Approx. Ø 50 x 265 mm
Weight (incl. batteries)	SK 100 G4: approx. 160 g SKM 100(-S) G4: approx. 450 g

EK 100 G4 (Diversity Receiver)

RF characteristics	
Modulation	Wideband FM
Frequency ranges	A1: 470 - 516 MHz A: 516 - 558 MHz A10: 516 - 558 MHz AS: 520 - 558 MHz G: 566 - 608 MHz GB: 606 - 648 MHz B: 626 - 668 MHz C: 734 - 776 MHz D: 780 - 822 MHz E: 823 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz
Receiving frequencies	1680 frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 12 factory-preset channels 1 frequency bank with up to 12 programmable channels
Switching bandwidth	up to 42 MHz
Nominal/peak deviation	±24 kHz / ±48 kHz
Receiver principle	adaptive diversity
Sensitivity (with HDX, peak deviation)	< 1.6 µV for 52 dBA eff S/N
Adjacent channel rejection	≥ 65 dB
Intermodulation attenuation	≥ 65 dB
Blocking	≥ 70 dB
Squelch	low: 5 dBµV middle: 15 dBµV high: 25 dBµV

Pilot tone squelch	Can be switched off
AF characteristics	
Compander system	Sennheiser HDX
Signal-to-noise ratio (1 mV, peak deviation)	≥ 110dBA
Total harmonic distortion (THD)	≤ 0.9 %
AF output voltage (at peak deviation, 1 kHz AF)	3.5 mm jack socket: +11 dBu (mono, unbalanced)
Adjustment range of audio output level	42 dB, adjustable in steps of 6 dB
Overall device	
Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V (alkali manganese) or BA 2015 accupack
Nominal voltage	3 V battery / 2.4 V rechargeable battery
Current consumption:	
at nominal voltage	Typically 180 mA
with receiver switched off	≤ 25 µA
Operating time	Typically 8 h
Dimensions	Approx. 82 x 64 x 24 mm
Weight (incl. batteries)	Approx. 160 g

SKP 100 G4 (Plug-on Transmitter)

RF characteristics	
Modulation	Wideband FM
Frequency ranges	A1: 470 - 516 MHz A: 516 - 558 MHz AS: 520 - 558 MHz G: 566 - 608 MHz GB: 606 - 648 MHz B: 626 - 668 MHz C: 734 - 776 MHz D: 780 - 822 MHz E: 823 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz
Transmission frequencies	1680 frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 12 factory-preset channels 1 frequency bank with up to 12 programmable channels
Switching bandwidth	up to 42 MHz
Nominal/peak deviation	±24 kHz / ±48 kHz
Frequency stability	≤ ±15 ppm
RF output power at 50 Ω	30 mW E, JB and K+: limited to 10 mW
Pilot tone squelch	Can be switched off

AF characteristics	
Compander system	Sennheiser HDX
AF frequency response	80 - 18,000 Hz
Signal-to-noise ratio (1 mV, peak deviation)	≥ 110dBA
Total harmonic distortion (THD)	≤ 0.9 %
Max. microphone/line input voltage	3.3 V _{eff}
Input impedance	68 kΩ, unbalanced
Input capacitance	Switchable
Setting range for input sensitivity	48 dB, adjustable in 6 dB steps
Overall device	
Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V (alkali manganese) or BA 2015 accupack
Nominal voltage	3 V battery / 2.4 V rechargeable battery
Current consumption:	
at nominal voltage	Typically 180 mA
with transmitter switched off	≤ 25 µA
Operating time	Typically 8 h
Dimensions	Approx. 105 x 43 x 43 mm
Weight (incl. batteries)	Approx. 195 g

EM 300 G4 (True Diversity Receiver)

RF characteristics	
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: 626 - 698 MHz Cw: 718 - 790 MHz Dw: 790 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz
Receiving frequencies	Max. 2880 receiving 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
Receiver principle	True diversity
Sensitivity (with HDX, peak deviation)	< 2 µV for 52 dBA eff S/N
Adjacent channel selection	Typically ≥ 75 dB
Intermodulation attenuation	Typically ≥ 70 dB
Blocking	≥ 75 dB
Squelch	low: 5 dBµV middle: 15 dBµV high: 25 dBµV

Pilot tone squelch	Can be switched off
Antenna inputs	2 BNC sockets
AF characteristics	
Compander system	Sennheiser HDX
EQ presets (switchable, act on line and monitor outputs):	• Preset 1: "Flat" • Preset 2: "Low Cut" • Preset 3: "Low Cut/ High Boost" • Preset 3: "High Boost"
Signal-to-noise ratio (1 mV, peak deviation)	≥ 115 dBA
Total harmonic distortion (THD)	≤ 0.9 %
AF output voltage (at peak deviation, 1 kHz AF)	6.3 mm jack socket (unbalanced): +12 dBu XLR socket (balanced): +18 dBu
Setting range "AF OUT"	48 dB (3 dB steps)
Overall device	
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

SK 300 G4 | SK 500 G4 (Bodypack Transmitter)

RF characteristics	
Modulation	Wideband FM
Frequency ranges	Aw+: 470 - 558 MHz Aw30: 470 - 558 MHz (SK 300 G4) AS: 520 - 558 MHz Gw1: 558 - 608 MHz Gw: 558 - 626 MHz GBw: 606 - 678 MHz Bw: 626 - 698 MHz Bw30: 626 - 698 MHz (SK 300 G4) 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: 10 mW Standard: 30 mW High: 50 mW
Max. microphone/line input impedance	40 kΩ, unbalanced / 1 MΩ
Microphone/line input voltage	40 kΩ, unbalanced / 1 MΩ
Input capacitance	Switchable
Setting range for input sensitivity	60 dB, adjustable in 3 dB steps
Overall device	
Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V (alkali manganese) or BA 2015 accupack, 2.4 V
Nominal voltage	3 V battery / 2.4 V rechargeable battery
Current consumption:	
at nominal voltage	Typically 140 mA
with transmitter switched off	≤ 25 µA
Operating time	Typically 8 h
Dimensions	Approx. 82 x 64 x 24 mm
Weight (incl. batteries)	Approx. 160 g

Receiving frequencies	Max. 2880 frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 32 factory-preset channels, no intermodulation 6 frequency bank 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: 10 mW Standard: 30 mW High: 50 mW
Max. microphone/line input voltage	3 V _{eff}
Microphone/line input impedance	40 kΩ, unbalanced / 1 MΩ
Setting range for input sensitivity	60 dB, adjustable in 3 dB steps
Overall device	
Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V (alkali manganese) or BA 2015 accupack, 2.4 V
Nominal voltage	3 V battery / 2.4 V rechargeable battery
Current consumption:	
at nominal voltage	Typically 180 mA
with transmitter switched off	≤ 25 µA
Operating time	Typically 8 h
Dimensions	Approx. 82 x 64 x 24 mm
Weight (incl. batteries)	Approx. 160 g

SKM 300 G4 | SKM 500 G4 (Handheld Transmitter)

RF characteristics	
Modulation	Wideband FM
Frequency range	Aw+: 470 - 558 MHz Aw30: 470 - 558 MHz (SKM 300 G4) AS: 520 - 558 MHz Gw1: 558 - 608 MHz Gw: 558 - 626 MHz GBw: 606 - 678 MHz Bw: 626 - 698 MHz Bw30: 626 - 698 MHz (SKM 300 G4) Cw: 718 - 790 MHz Dw: 790 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz
Receiving frequencies	Max. 2880 frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 32 factory-preset channels, no intermodulation
Transmission frequencies	Max. 2880 frequencies, adjustable in 25 kHz steps

	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: 10 mW Standard: 30 mW High: 50 mW JB, K+: limited to 10 mW Aw30, Bw30: limited to 30 mW The use of 863-865 MHz is restricted to 10 mW in Europe.
Pilot tone squelch	Can be switched off
AF characteristics	
Compander system	Sennheiser HDX
AF frequency response	80 – 18,000 Hz
Signal-to-noise ratio (1 mV, peak deviation)	≥ 115dBA
Total harmonic distortion (THD)	≤ 0.9 %
Setting range for input sensitivity	48 dB, adjustable in 6 dB steps
Overall device	

Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V (alkali manganese) or BA 2015 accupack, 2.4 V
Nominal voltage	3 V battery / 2.4 V rechargeable battery
Current consumption:	
at nominal voltage	Typically 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

EK 500 G4 (Diversity Receiver)

RF characteristics	
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: 626 - 698 MHz Cw: 718 - 790 MHz Dw: 790 - 865 MHz JB: 806 - 810 MHz K+: 925 - 937.5 MHz
Receiving frequencies	Max. 2880 frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 32 factory-preset channels, no intermodulation 6 frequency bank with up to 32 programmable channels
Switching bandwidth	up to 88 MHz
Nominal/peak deviation	±24 kHz / ±48 kHz
Receiver principle	adaptive diversity
Sensitivity (with HDX, peak deviation)	< 1.6 µV for 52 dBA eff S/N
Adjacent channel rejection	Typically ≥ 65 dB
Intermodulation attenuation	Typically ≥ 65 dB
Blocking	≥ 70 dB
Squelch	low: 5 dBµV middle: 15 dBµV high: 25 dBµV
Pilot tone squelch	Can be switched off
AF characteristics	
Compander system	Sennheiser HDX
Signal-to-noise ratio (1 mV, peak deviation)	Line: ≥ 110dBA Phones: approx. 90 dBA
Total harmonic distortion (THD)	≤ 0.9 %
AF output voltage (at peak deviation, 1 kHz AF)	3.5 mm jack socket: +17 dBu (mono, balanced)
Adjustment range of audio output level	42 dB, adjustable in steps of 6 dB
Overall device	
Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V (alkali manganese) or BA 2015 accupack
Nominal voltage	3 V battery / 2.4 V rechargeable battery
Current consumption:	
at nominal voltage	Typically 140 mA
with transmitter switched off	≤ 25 µA
Operating time	Typically 8 h
Dimensions	Approx. 82 x 64 x 24 mm
Weight (incl. batteries)	Approx. 130 g

Pilot tone squelch	Can be switched off
AF characteristics	
Compander system	Sennheiser HDX
Signal-to-noise ratio (1 mV, peak deviation)	Line: ≥ 110dBA Phones: approx. 90 dBA
Total harmonic distortion (THD)	≤ 0.9 %
AF output voltage (at peak deviation, 1 kHz AF)	3.5 mm jack socket: +17 dBu (mono, balanced)
Adjustment range of audio output level	42 dB, adjustable in steps of 6 dB
Overall device	
Temperature range	-10 °C to +55 °C
Power supply	2 AA batteries, 1.5 V (alkali manganese) or BA 2015 accupack
Nominal voltage	3 V battery / 2.4 V rechargeable battery

Current consumption:	
at nominal voltage	Typically 140 mA
with transmitter switched off	≤ 25 µA
Operating time	Typically 8 h
Dimensions	Approx. 82 x 64 x 24 mm
Weight (incl. batteries)	Approx. 130 g
SKP 500 G4 (Plug-on Transmitter)	

RF characteristics	
Modulation	Wideband FM

Frequency ranges	Aw+: 470 - 558 MHz AS: 520 - 558 MHz Gwl: 558 - 608 MHz Gw: 558 - 626 MHz GBw: 606 - 678 MHz Bw: 626 - 698 MHz Ow: 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 up to 88 MHz ±24 kHz / ±48 kHz
Switching bandwidth	≤ ±15 ppm
Nominal/peak deviation	switchable: Low: 10 mW Standard: 30 mW High: 50 mW
Frequency stability	JB, K+: limited to 10 mW The use of 863-865 MHz is restricted to 10 mW in Europe.
RF output power at 50 Ω	

