



Evolution Wireless Digital

EW-DX SKM-S | EW-DX SKM

Handheld Transmitter



Rugged and versatile handheld transmitter with or without switch.

FEATURES

- 10mW RF power with up to 100m/328ft working range
- Charging contacts for in-device charging with CHG 70N
- Persistent elnk display - parameters visible on screen even when device is not powered on
- Programmable mute switch on EW-DX SKM-S - customize the device depending on your professional needs
- Function buttons - control all the transmitter settings directly from handheld microphone
- Extended runtime with lithium-ion batteries - up to 12 hours operation time
- Standard capsule interface - compatible with a wide range of Sennheiser and Neumann capsules
- Mic input trim control
- Metal housing

DELIVERY INCLUDES

- EW-DX SKM handheld transmitter
- MMD 835 microphone module
- MZQ 1 microphone clamp
- batteries (AA)
- pouch
- quick guide
- safety guide
- manufacturer declaration sheet



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SPECIFICATIONS

System			EW-DX SKM (Handheld Transmitter)	
Audio link frequency ranges	Q1-9	470.2 - 550 MHz	Input voltage	2.0 - 4.35 V
	R1-9	520 - 607.8 MHz	Input current	< 300 mA
	S1-10	606.2 - 693.8 MHz	Power supply	2 AA batteries 1.5 V (alkali manganese) or BA 70 rechargeable battery pack
	S2-10	614.2 - 693.8 MHz	Occupied bandwidth	200 kHz
	S4-10	630 - 693.8 MHz	Transmit power (radiated)	Audio link: 10 mW ERP (Range Y1-3: 12 mW ERP) LD mode: 10 mW ERP BLE: max. 10 mW EIRP
	U1/5	823.2 - 831.8 MHz & 863.2 - 864.8 MHz	Dimensions (ø x l) (incl. MMD 835 microphone module)	50 x 268 mm (1.97" x 10.55")
	V3-4	925.2 - 937.3 MHz	(without microphone module)	40 x 200 mm (1.57" x 7.87")
	V5-7	941.7 - 951.8 MHz & 953.05 - 956.05 MHz & 956.65 - 959.65 MHz	Weight (without batteries) (incl. MMD 835 microphone module)	approx. 304 g (0.67 lbs)
	X1-6	1350.2 - 1398.8 MHz	(without microphone module)	approx. 195 g (7.14 lbs)
	X9-18	1435.2 - 1524.8 MHz		
Bluetooth® Low Energy (BLE) frequency range				
2402 - 2480 MHz				
Audio frequency response	20 Hz - 20 kHz (-3 dB)			
Audio THD	≤ -60 dB for 1 kHz @ -3 dBfs input level			
Dynamic range	134 dB			
System latency	1.9 ms			
Operating temperature	-10 °C - +55 °C (14 °F - 131 °F)			
Relative humidity	5 - 95 % (non-condensing)			



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PRODUCT VARIANTS

EW-DX SKM-S (Q1-9)	470.2 - 550 MHz	Art. no. 509412
EW-DX SKM-S (R1-9)	520 - 607.8 MHz	Art. no. 509413
EW-DX SKM-S (S1-10)	606.2 - 693.8 MHz	Art. no. 509414
EW-DX SKM-S (S1/10)	606.2 - 637.8 MHz & 650.2 - 693.8 MHz	Art. no. 509415
EW-DX SKM-S (S2-10)	614.2 - 693.8 MHz	Art. no. 509417
EW-DX SKM-S (S4-10)	630 - 693.8 MHz	Art. no. 509418
EW-DX SKM-S (U1/5)	823.2 - 831.8 MHz & 863.2 - 864.8 MHz	Art. no. 509419
EW-DX SKM-S (V3-4)	925.2 - 937.3 MHz	Art. no. 509421
EW-DX SKM-S (V5-7)	941.7 - 951.8 MHz & 953.05 - 956.05 MHz & 956.65 - 959.65 MHz	Art. no. 509422
EW-DX SKM-S (X1-6)	1350.2 - 1398.8 MHz	Art. no. 509424
EW-DX SKM-S (X9-18)	1435.2 - 1524.8 MHz	Art. no. 509425
EW-DX SKM-S (Y1-3)	1785.2 - 1799.8 MHz	Art. no. 509423
EW-DX SKM (Q1-9)	470.2 - 550 MHz	Art. no. 509426
EW-DX SKM (R1-9)	520 - 607.8 MHz	Art. no. 509427
EW-DX SKM (S1-10)	606.2 - 693.8 MHz	Art. no. 509428
EW-DX SKM (S1/10)	606.2 - 637.8 MHz & 650.2 - 693.8 MHz	Art. no. 509429
EW-DX SKM (S2-10)	614.2 - 693.8 MHz	Art. no. 509431
EW-DX SKM (S4-10)	630 - 693.8 MHz	Art. no. 509432
EW-DX SKM (U1/5)	823.2 - 831.8 MHz & 863.2 - 864.8 MHz	Art. no. 509433
EW-DX SKM (V3-4)	925.2 - 937.3 MHz	Art. no. 509435
EW-DX SKM (V5-7)	941.7 - 951.8 MHz & 953.05 - 956.05 MHz & 956.65 - 959.65 MHz	Art. no. 509436
EW-DX SKM (X1-6)	1350.2 - 1398.8 MHz	Art. no. 509437
EW-DX SKM (X9-18)	1435.2 - 1524.8 MHz	Art. no. 509438
EW-DX SKM (Y1-3)	1785.2 - 1799.8 MHz	Art. no. 509439

MICROPHONE COMPATIBILITY

Microphone modules compatible with the EW-DX SKM-S and EW-DX SKM handheld transmitters

MMD 835-1	Dynamic microphone module with cardioid polar pattern
MMD 845-1	Dynamic microphone module with supercardioid polar pattern
MME 865-1	Pre-polarized condenser microphone module with supercardioid polar pattern
MMD 935-1	Dynamic microphone module with cardioid polar pattern
MMD 945-1	Dynamic microphone module with supercardioid polar pattern
MMK 965-1	Condenser microphone module with switchable cardioid and supercardioid polar pattern
MMD 42-1	Dynamic microphone module with omni-directional polar pattern
Neumann KK 204	Condenser microphone module with cardioid polar pattern
Neumann KK 205	Condenser microphone module with supercardioid polar pattern
MM 435	Dynamic microphone module with cardioid polar pattern
MM 445	Dynamic microphone module with supercardioid polar pattern
ME 9002	Pre-polarized condenser microphone module with omni-directional polar pattern
ME 9004	Pre-polarized condenser microphone module with cardioid polar pattern
ME 9005	Pre-polarized condenser microphone module with supercardioid polar pattern



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EW-DX SKM handheld transmitter

The handheld transmitter shall be for use with a companion receiver as part of a digital wireless RF transmission system.

The handheld transmitter shall operate within the following UHF frequency ranges, with a switching bandwidth of up to 88 MHz: 470.2 – 550 MHz, 520 – 607.8 MHz, 606.2 – 693.8 MHz, 614.2 – 693.8 MHz, 630 – 693.8 MHz, 823.2 – 831.8 MHz, 863.2 – 846.8 MHz, 925.2 – 937.3 MHz, 941.7 – 951.8 MHz, 953.05 – 956.05 MHz, 956.65 – 959.65 MHz, 1350.2 – 1398.8 MHz, 1435.2 – 1524.8 MHz, 1785.2 – 1799.8 MHz. Different frequency variants shall be available depending on country-specific regulations.

The audio frequency response shall be between 20 Hz and 20 kHz (-3 dB). Audio total harmonic distortion (THD) shall be ≤ -60 dB for 1 kHz @ -3 dBfs input level. Dynamic range shall be 134 dB. System latency shall be 1.9 ms.

Occupied bandwidth shall be 200 kHz. Transmit power (radiated) shall be 10 mW ERP (1785.2 – 1799.8 MHz Range: 12 mW ERP).

The handheld transmitter shall be menu-driven with a backlit elnk display showing the relevant status information such as frequency, battery status or AES 256 encryption status.

All transmitter parameters shall be adjustable with function buttons on the device itself or by Bluetooth Low Energy (BLE) synchronization via the associated receiver. The function buttons shall be lockable against accidental misuse.

Power shall be supplied to the handheld transmitter by two 1.5 V AA size batteries or by one Sennheiser BA 70 rechargeable battery pack. Operating time shall be typically 12 hours with a battery pack and up to 8 hours with AA batteries.

The handheld transmitter shall feature charging contacts for direct charging of the transmitter with inserted BA 70 battery pack in a Sennheiser CHG 70N network-enabled charger.

The handheld transmitter shall utilize Sennheiser's standard capsule interface serving Sennheiser microphone modules of the evolution wireless and 2000 series and Digital 6000 and 9000 as well as the Neumann KK 204 / 205 microphone modules.

The handheld transmitter shall have a rugged metal housing; dimensions shall be approximately 50 mm (1.97") in diameter and 268 mm (10.55") in length including a Sennheiser MMD 835 microphone module. Weight including MMD 835 microphone module shall be approximately 304 grams (0.67 lbs). Operating temperature shall range from -10 °C to +50 °C (+14 °F to +122 °F).

The handheld transmitter shall be the Sennheiser EW-DX SKM.

EW-DX SKM-S handheld transmitter

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Occupied bandwidth shall be 200 kHz. Transmit power (radiated) shall be 10 mW ERP (1785.2 – 1799.8 MHz Range: 12 mW ERP).

A programmable mute switch shall be provided for muting or unmuting either the audio signal or the radio signal. The mute switch can also be deactivated.

The handheld transmitter shall be menu-driven with a backlit elnk display showing the relevant status information such as frequency, battery status or AES 256 encryption status.

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