



Versatile and feature-rich digital wireless system for those who sing, speak or play instruments that allows for seamless product pairing and management via the Smart Assist App.

Benefit from our EW-D SKM-S handheld transmitter with the dynamic MMD 835 microphone module in addition to a robust bodypack transmitter with metal housing and unobstrusive clip-on microphone ME 2 (omni-directional) with high speech intelligibility.

FEATURES

- Digital wireless eliminates noise, interference and static bursts
- UHF transmission greatly enhances range, reliability and scalability
- Mobile App streamlines setup and operation and eliminates complicated menus
- Automated setup creates reliable connections with minimal time and effort
- Up to 2,240 selectable frequencies
- Transmission range: up to 100 m in an ideal environment (without obstacles)
- Lithium Ion battery pack delivers up to 12 hours of operation (up to 8 hours of operation with AA batteries)
- 56 MHz Bandwidth will allow for up to 90 channels
- Preserves every detail of even the most dynamic performances with 134 dB transmitter dynamic range

DELIVERY INCLUDES

- EW-D EM rack receiver
- EW-D SK bodypack transmitter
- EW-D SKM-S handheld transmitter
- ME 2 lavalier microphone
- MMD 835 microphone module
- · MZQ 1 microphone clamp
- 2 rod antennas
- power supply with country adapters
- rackmount set
- 4 rubber feet
- · quick guide
- · safety guide
- manufacturer declaration sheet



PRODUCT VARIANTS

470.2 - 526 MHz	Art. no. 508770
520 - 576 MHz	Art. no. 508771
552 - 607.8 MHz	Art. no. 508772
606.2 - 662 MHz	Art. no. 508773
630 - 662 MHz	Art. no. 508774
662 - 693.8 MHz	Art. no. 508775
694.5 – 702.7 MHz & 748.3 – 757.7 MHz	Art. no. 700449
806.125 – 809.750 MHz	Art. no. 700450
819.2 – 823.0 MHz	Art. no. 700451
823.2 - 831.8 MHz & 863.2 - 864.8 MHz	Art. no. 508776
925.2 - 937.3 MHz	Art. no. 508778
1785.2 - 1799.8 MHz	Art. no. 508779
	520 - 576 MHz 552 - 607.8 MHz 606.2 - 662 MHz 630 - 662 MHz 662 - 693.8 MHz 694.5 - 702.7 MHz & 748.3 - 757.7 MHz 806.125 - 809.750 MHz 819.2 - 823.0 MHz 823.2 - 831.8 MHz & 863.2 - 864.8 MHz 925.2 - 937.3 MHz

ACCESSORIES

EW-D CHARGING SET

EW-D ASA (Q-R-S)	Active Antenna Splitter	470 - 694 MHz	Art. no. 508879
EW-D ASA (T-U-V-W)	Active Antenna Splitter	694 - 1075 MHz	Art. no. 508880
EW-D ASA (X-Y)	Active Antenna Splitter	1350 - 1805 MHz	Art. no. 508881
EW-D ASA CN/ANZ (Q-R-S)	Active Antenna Splitter	470 - 694 MHz	Art. no. 508998
EW-D AB (Q)	Antenna Booster	470 - 550 MHz	Art. no. 508873
EW-D AB (R)	Antenna Booster	520 - 608 MHz	Art. no. 508874
EW-D AB (S)	Antenna Booster	606 - 694 MHz	Art. no. 508875
EW-D AB (T)	Antenna Booster	694 - 824 MHz	Art. no. 700462
EW-D AB (U)	Antenna Booster	823 - 865 MHz	Art. no. 508876
EW-D AB (V)	Antenna Booster	902 - 960 MHz	Art. no. 508877
EW-D AB (Y)	Antenna Booster	1785 - 1805 MHz	Art. no. 508878
Half Wave Dipole (Q)	Pair of rod antennas	470 - 550 MHz	Art. no. 508868
Half Wave Dipole (R)	Pair of rod antennas	520 - 608 MHz	Art. no. 508869
Half Wave Dipole (S)	Pair of rod antennas	606 - 694 MHz	Art. no. 508870
Half Wave Dipole (T1-7)	Pair of rod antennas	694 – 758 MHz	Art. no. 700461
Half Wave Dipole (T12-14)	Pair of rod antennas	806 - 823 MHz	Art. no. 700504
Half Wave Dipole (U)	Pair of rod antennas	823 - 865 MHz	Art. no. 508871
Half Wave Dipole (V)	Pair of rod antennas	902 - 960 MHz	Art. no. 508966
Half Wave Dipole (Y)	Pair of rod antennas	1785 - 1805 MHz	Art. no. 508872
ADP UHF (470 - 1075 MHz)	Passive directional antenna	470 - 1075 MHz	Art. no. 508863
BA 70	Rechargeable battery pack for S	K and SKM-S	Art. no. 508860
L 70 USB	Charger for BA 70 rechargeable	battery pack	Art. no. 508861

Set of L 70 USB charger and 2 BA 70 rechargeable battery packs Art. no. 508862



ACCESSORIES

EW-D COLOR CODING SET	Colored labels for wireless link identification for EM, SKM-S, SK	Art. no. 508989
EW-D SK COLOR CODING	Colored labels for wireless link identification for SK	Art. no. 508990
EW-D SKM COLOR CODING	Colored labels for wireless link identification for SKM-S	Art. no. 508991
EW-D EM COLOR CODING	Colored labels for wireless link identification for EM	Art. no. 508992

MICROPHONE COMPATIBILITY

Lavalier and headset microphones compatible with the EW-D SK bodypack transmitter

ME 2	Omni-directional lavalier microphone Models produced from 2021 onward, featuring a gold-plated connector*
ME 4	Cardioid lavalier microphone Models produced from 2021 onward, featuring a gold-plated connector*
MKE Essential Omni	Omni-directional lavalier microphone
MKE 2 Gold	Omni-directional lavalier microphone Models produced from 2018 onward, featuring a blue serial number plate
MKE 1	Omni-directional lavalier microphone
ME 3	Cardioid headset microphone Models produced from 2021 onward, featuring a gold-plated connector*
HSP Essential Omni	Omni-directional headset microphone
HSP 2	Omni-directional headset microphone Models produced from March 2020 onward (featuring code 1090 or later)
HS 2	Omni-directional headset microphone Models produced from 2021 onward, featuring a gold-plated connector*
SL Headmic 1	Omni-directional headset microphone

^{*} Models produced prior to 2021 will feature a nickel connector. Earlier models may pick up noise when placed close to the transmitter and are not recommended for use

Microphone modules compatible with the EW-D SKM-S handheld transmitter

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



SPECIFICATIONS

System			EW-D SKM-S (
Audio link	Q1-6	470.2 – 526 MHz	Input voltage
frequency ranges	R1-6 R4-9	520 – 576 MHz 552 – 607.8 MHz	Input current
	S1-7	606.2 – 662 MHz	Power supply
	S4-7	630 – 662 MHz	
	S7-10	662 – 693.8 MHz	
	T1/7	694.5 – 702.7 MHz &	Occupied band
	T12	748.3 – 757.7 MHz 806.125 – 809.750 MHz	Transmit powe
	T13-14	819.2 – 823.0 MHz	
	U1/5	823.2 – 831.8 MHz &	
	•	863.2 - 864.8 MHz	Dimensions (ø
	V3-4	925.2 – 937.3 MHz	(incl. MMD 835
	Y1-3	1785.2 – 1799.8 MHz	module)
Bluetooth® Low Energy (BLE) frequency range	2402	- 2480 MHz	(without microped)
Audio frequency response	20 Hz @ 3 d	- 20 kHz (-3 dB) Bfs	Weight (withou
Audio THD		dB for 1 kHz dBfs input level	module)
Dynamic range	134 d	 B	(without micro
System latency	1.9 ms		module)
Operating temperature	-10 °C	; - +55 °C	
operating temperature		- 131 °F)	EW-D SK (Bod
Relative humidity	5 - 95	% (non-condensing)	Input voltage
5W D 5M (D 1 D 1)			Input current
EW-D EM (Rack Receiver)			Power supply
Input voltage	11 - 13		
Input current	≤ 300		
Transmit power (radiated)	BLE: ı	max. 10 mW EIRP	Occupied band
Audio output power	18 dB	u max.	Transmit powe
Dimensions		44 x 189 mm	
	(8.35	' x 1.73" x 7.44")	
Weight (without antennas and power supply)	appro	x. 1000 g (2.2 lbs)	Dimensions (w na)
ME 2 (Lavalier Microphone	e)		Weight (withou
Transducer principle		olarized condensor phone	MMD 835 (Mic
Pick-up pattern		directional	Transducer pri
Sensitivity (free field, no	17 mV	//Pa	Sensitivity
load) (1 kHz)		,	Sound pressure
Max. SPL at 1 kHz	130 d	В	Pick-up patterr
Frequency response	50 to	18,000 Hz	
Equivalent noise level A-weighted	32 dB		Set in packagi
Connector	3.5 m	m jack	Dimensions
Cable length		x. 1.60 m (62.99")	
	<u> </u>		Weight

7.5 V

Supply voltage

EVV	-ט	SKIVI	-5 (Ha	naneic	ııra	ıns	mı	ττ	er,	•
						_	_			

Input voltage	2.0 - 4.35 V
Input current	< 300 mA
Power supply	2 AA batteries 1.5 V (al- kali manganese) or BA 70 rechargeable battery pack
Occupied bandwidth	200 kHz
Transmit power (radiated)	Audio link: 10 mW ERP (Range Y1-3: 12 mW ERP) BLE: max. 10 mW EIRP
Dimensions (ø x l) (incl. MMD 835 microphone module)	50 x 268 mm (1.97" x 10.55")
(without microphone module)	40 x 200 mm (1.57" x 7.87")
Weight (without batteries) (incl. MMD 835 microphone module)	approx. 304 g (0.67 lbs)
(without microphone module)	approx. 195 g (7.14 lbs)

dypack Transmitter)

Input voltage	2.0 - 4.35 V
Input current	< 300 mA
Power supply	2 AA batteries 1.5 V (al- kali manganese) or BA 70 rechargeable battery pack
Occupied bandwidth	200 kHz
Transmit power (radiated)	Audio link: 10 mW ERP (Range Y1-3: 12 mW ERP) BLE: max. 10 mW EIRP
Dimensions (without antenna)	63 x 80 x 20 mm (2.48" x 3.15" x 0.79")
Weight (without batteries)	approx. 120 g (0.26 lbs)

crophone Module)

Transducer principle	dynamic
Sensitivity	2.1 mV/Pa
Sound pressure level	154 dB SPL
Pick-up pattern	cardioid

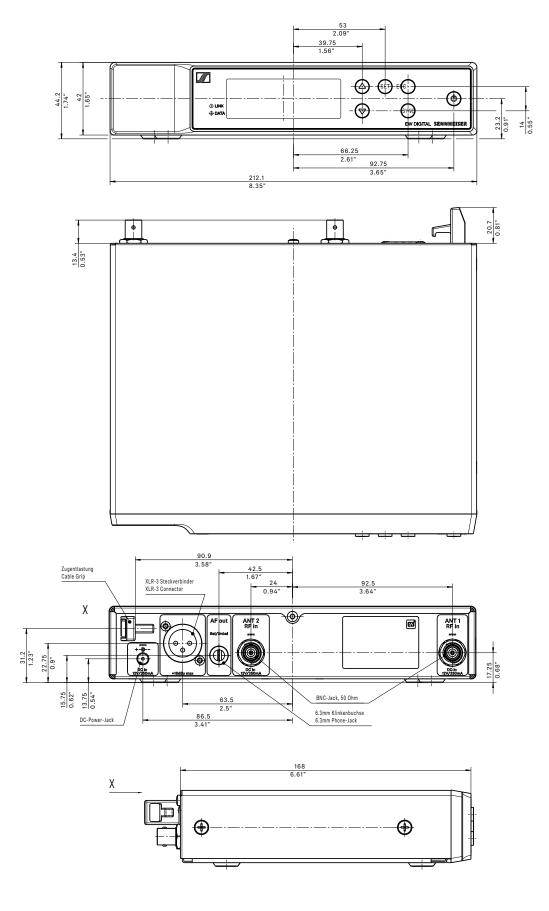
ing

Dimensions	405 x 350 x 73 mm (15.91" x 13.78" x 2.87")
Weight	3.1 kg (6.83 lbs)
Weight	3.1 kg (6.83 lbs)



DIMENSIONS

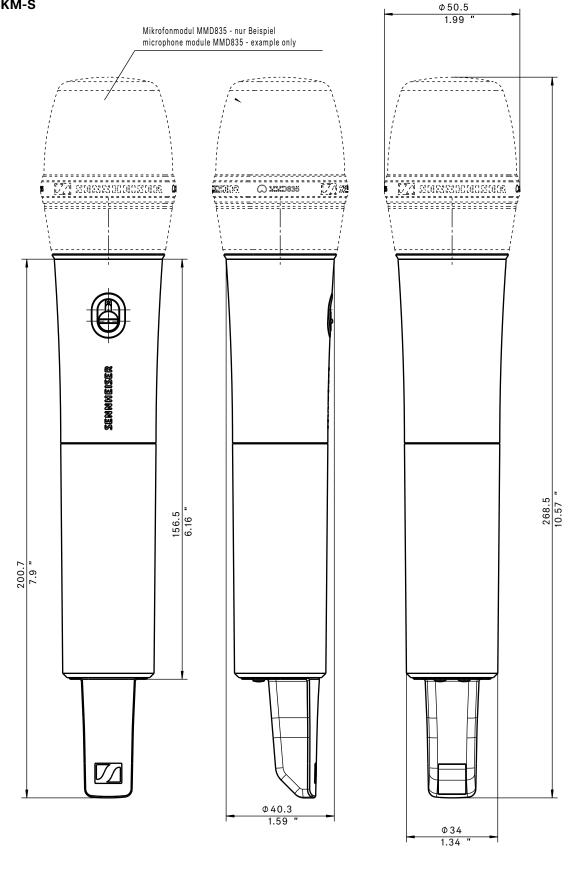
EW-D EM





DIMENSIONS

EW-D SKM-S

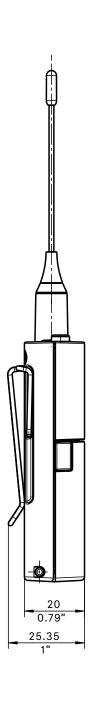




DIMENSIONS EW-D SK

	Stereo-Klinkenbuchse 3.5mm Stereo Jack 3.5mm
	Z semmeiser
82.08 3.23" 79.98 3.15"	
1 1	
470.2-526 MHZ	226.8 / 8.93"
520-576 MHZ	212.8 / 8.38"
552-608 MHZ	212.8 / 8.38"
630-662 MHZ 606-662 MHZ	190.8 / 7.51"
662-694 MHZ	190.8 / 7.51"
806.125 - 809.750 MHz / 823-832 MHZ / 863-865 MHZ	161.8 / 6.37"
902-928 MHZ	152.8 / 6.02"
925-937.5 MHZ	152.8 / 6.02"
1785-1805 MHZ	198.8 / 7.83"
Frequenzbereich Frequency range	L

63.52 2.5"





ARCHITECT'S SPECIFICATION

EW-D EM rack receiver

The stationary receiver with switching diversity technology shall be for use with a companion transmitter as part of a digital wireless RF transmission system.

The receiver shall operate within ten UHF frequency ranges, with a switching bandwidth of up to 56 MHz: 470.2 – 526 MHz, 520 – 576 MHz, 552 – 607.8 MHz, 606.2 – 662 MHz, 630 – 662 MHz, 662 – 693.8 MHz, 694.5 – 702.7 MHz, 748.3 – 757.7 MHz, 806.125 – 809.750 MHz, 819.2 – 823.0 MHz, 823.2 – 831.8 MHz, 863.2 – 846.8 MHz, 925.2 – 937.3 MHz, 1785.2 – 1799.8 MHz; selectable frequencies shall be up to 2,240.

The receiver shall feature Bluetooth® Low Energy (BLE) at a frequency range between 2402 and 2480 MHz for remote controlling the devices via a control App for iOS and Android.

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

The receiver shall be menu-driven with a backlit LC display showing the current frequency, channel number, metering of RF level, metering of AF level, lock status, muting function, mute lock status, antenna switching diversity, app connection, gain, audio output level, menu and battery status of the associated transmitter. An auto-lock feature shall be provided to prevent settings from being accidentally altered.

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. Two BNC-type input sockets shall be provided for connecting the antennas.

The receiver shall operate on 12 V power supplied from the power supply unit or from a Sennheiser EW-D ASA antenna splitter. Power consumption shall be \leq 300 mA. The receiver shall have a rugged metal housing; dimensions shall be approximately 212 x 44 x 189 mm (8.35" x 1.73" x 7.44"). Weight shall be approximately 1000 grams (2.2 lbs) without antennas and power supply. Operating temperature shall range from -10 °C to +55 °C (+14 °F to +131 °F).

The receiver shall be the Sennheiser EW-D EM.

EW-D SKM-S 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 ten UHF frequency ranges, with a switching bandwidth of up to 56 MHz: 470.2 – 526 MHz, 520 – 576 MHz, 552 – 607.8 MHz, 606.2 – 662 MHz, 630 – 662 MHz, 662 – 693.8 MHz, 694.5 – 702.7 MHz, 748.3 – 757.7 MHz, 806.125 – 809.750 MHz, 819.2 – 823.0 MHz, 823.2 – 831.8 MHz, 863.2 – 846.8 MHz, 925.2 – 937.3 MHz, 1785.2 – 1799.8 MHz; selectable frequencies shall be up to 2,240.

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

A programmable mute switch shall be provided to mute or unmute the audio signal.

The handheld transmitter's parameters shall be configurable in the associated receiver's menu and synchronized with the handheld transmitter via Bluetooth Low Energy (BLE).

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

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 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 +55 °C (+14 °F to +131 °F).

The handheld transmitter shall be the Sennheiser EW-D SKM-S.

The microphone head suitable for use with the handheld transmitter shall be a dynamic type with a cardioid pick-up pattern and a sensitivity of 2.1 mV/Pa. Maximum sound pressure level shall be 154 dB SPL.

The microphone head shall be the Sennheiser MMD 835.



ARCHITECT'S SPECIFICATION

EW-D SK bodypack transmitter

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

The bodypack transmitter shall operate within ten UHF frequency ranges, with a switching bandwidth of up to 56 MHz: 470.2 – 526 MHz, 520 – 576 MHz, 552 – 607.8 MHz, 606.2 – 662 MHz, 630 – 662 MHz, 662 – 693.8 MHz, 694.5 – 702.7 MHz, 748.3 – 757.7 MHz, 806.125 – 809.750 MHz, 819.2 – 823.0 MHz, 823.2 – 831.8 MHz, 863.2 – 846.8 MHz, 925.2 – 937.3 MHz, 1785.2 – 1799.8 MHz; selectable frequencies shall be up to 2,240.

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

A programmable mute switch shall be provided to mute or unmute the audio signal.

The bodypack transmitter's parameters shall be configurable in the associated receiver's menu and synchronized with the bodypack transmitter via Bluetooth Low Energy (BLE).

Power shall be supplied to the bodypack 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

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

The bodypack transmitter shall have a rugged metal housing; dimensions shall be approximately 63 x 80 x 20 mm (2.48" x 3.15" x 0.79") without antenna. Weight without the batteries shall be approximately 120 grams (0.26 lbs). Operating temperature shall range from -10 °C to +55 °C (+14 °F to +131 °F).

The bodypack transmitter shall be compatible with microphones for every application: Sennheiser lavalier microphones ME 2, ME 4, MKE 1, MKE 2 Gold and MKE Essential Omni, Sennheiser headset microphones HS 2, HSP 2, HSP Essential Omni, ME 3 and SL Headmic 1.

The bodypack transmitter shall be the Sennheiser EW-D SK.