

# Specifications

## System

Modulation	wideband FM
Frequency ranges	A: 548 to 572 MHz GB: 606 to 630 MHz B: 614 to 638 MHz C: 766 to 790 MHz D: 794 to 806 MHz E: 821 to 832 MHz and 863 to 865 MHz K: 925 to 937.5 MHz
Switching bandwidth	up to 24 MHz
Frequencies	adjustable in 25-kHz steps 8 frequency banks, each with up to 12 factory-preset channels
Signal-to-noise ratio	≥ 103 dBA
THD	≤ 0.9%
Temperature range	operation: 0°C to +40°C storage: -20°C to +70°C
Transmitter synchronization	2.4 GHz, Low Power OQPSK (only active during synchronization)

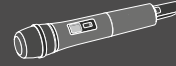
## Receiver



### EM-XSW2

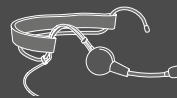
Receiver principle	double superheterodyne
Diversity principle	True Diversity
Sensitivity (at peak deviation)	< 3 μV at 52 dB(A) <sub>rms</sub> S/N
AF frequency response	50 to 16,000 Hz (-3 dB)
Max. AF output voltage (at peak deviation, 1 kHz AF)	1/4" (6.3 mm) jack socket (unbalanced): +6 dBu XLR socket (balanced): +12 dBu
Audio adjustment range	40 dB, adjustable via jog dial
Power supply	12 V $\overline{\text{---}}$ nom. / 300 mA
Squelch	adjustable from 3 dBμV to 28 dBμV (combined with pilot tone)
Line/Mic level	20 dB, switchable
Housing material	rugged metal housing
Dimensions (W x H x D)	ca. 200 x 42 x 127 mm
Weight	ca. 680 g

## Transmitters



	SK-XSW	SKM-XSW
	e 835	e 865
RF output power	10 mW	
AF frequency response	50 to 16,000 Hz (Line) 80 to 16,000 Hz (Mic)	80 to 16,000 Hz
Audio input	3.5 mm jack socket	–
Max. input voltage (Mic/Line) at 3% THD	typ. 1.5 V <sub>RMS</sub> Mic/ typ. 2.6 V <sub>RMS</sub> Line @ –30 dB Gain	–
Power supply	2 AA size batteries, 1.5 V	
Operating time	approx. 10 hours	
Microphone type	–	dynamic
		condenser, pre-polarized
Input sensitivity (capsule)	–	1.5 mV/Pa
		1.8 mV/Pa
Pick-up pattern	–	cardioid
		super-cardioid
Adjustment range of transmitter sensitivity	0 to –30 dB, adjustable in 10-dB steps	
Housing material	rugged ABS housing	
Dimensions	approx. 71 x 96 x 28 mm (W x H x D)	approx. 260 x 50 mm (L x Ø)
Weight	approx. 95 g	approx. 245 g

## Microphones



	ME 2-2	ME 3-II
Transducer principle	condenser, pre-polarized	condenser, pre-polarized
Sensitivity	20 mV/Pa	1.6 mV/Pa
Pick-up pattern	omni-directional	cardioid
Max. SPL	130 dB	150 dB

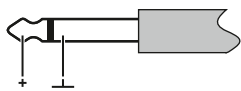
## NT 12-5CW power supply unit

Nominal input voltage	100 to 240 V~
Power frequency	50 or 60 Hz
Input current	≤ 200 mA
Nominal output voltage	12 V =
Output current	≤ 500 mA
Standby power consumption	≤ 0.075 W @230 V AC ≤ 0.1 W @115 V AC
Energy efficiency level	DoE Level VI
Temperature range	0°C to +40°C
Storage temperature	-20°C to +60°C
Relative air humidity	max. 95%
Weight (without adapter)	approx. 65 g
Cable length	approx. 1.83 m

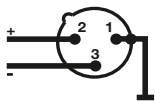
## Connector assignment

### EM-XSW2

1/4" (6.3 mm) mono jack  
plug



XLR-3 connector

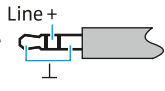


DC connector for  
power supply

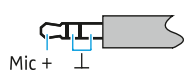


### SK-XSW

3,5-mm-jack plug

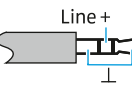
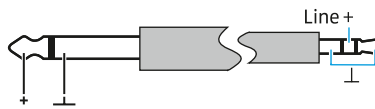


3,5-mm-jack plug



### CI 1-N

1/4" (6.3 mm) mono  
jack plug



3.5 mm jack plug



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COMPLIANCE

## Manufacturer Declarations

### Warranty

Sennheiser electronic GmbH & Co. KG gives a warranty of 24 months on this product. For the current warranty conditions, please visit our website at [www.sennheiser.com](http://www.sennheiser.com) or contact your Sennheiser partner.

### For Australia only

Sennheiser goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is in addition to other rights or remedies under law. Nothing in this warranty excludes, limits or modifies any liability of Sennheiser which is imposed by law, or limits or modifies any remedy available to the consumer which is granted by law.

To make a claim under this warranty, contact

Sennheiser Australia Pty Ltd, Unit 3, 31 Gibbes Street Chatswood NSW 2067, AUSTRALIA  
Phone: (02) 9910 6700, email: [service@sennheiser.com.au](mailto:service@sennheiser.com.au).

All expenses of claiming the warranty will be borne by the person making the claim.

The Sennheiser International Warranty is provided by Sennheiser Australia Pty Ltd (ABN 68 165 388 312), Unit 3, 31 Gibbes Street Chatswood NSW 2067 Australia.

### In compliance with the following requirements

- WEEE Directive (2012/19/EU) 
- Battery Directive (2013/56/EU & 2006/66/EU) 

### Notes on disposal

The symbol of the crossed-out wheeled bin on the product, the battery/rechargeable battery and/or the packaging indicates that these products must not be disposed of with normal household waste, but must be disposed of separately at the end of their operational lifetime.

Further information on the recycling of these products can be obtained from your municipal administration, from the municipal collection points, or from your Sennheiser partner.

The separate collection of waste electrical and electronic equipment, batteries/rechargeable batteries and packagings is used to promote the reuse and recycling and to prevent negative effects caused by e.g. potentially hazardous substances contained in these products. Herewith you make an important contribution to the protection of the environment and public health.

### CE Declaration of Conformity



- RoHS Directive (2011/65/EU)
- EMC Directive (2014/30/EU)
- Low Voltage Directive (2014/35/EU)

Hereby, Sennheiser electronic GmbH & Co. KG declares that the radio equipment type XS WIRELESS 2 consisting of SKM-XSW, SK-XSW and EM-XSW2 is in compliance with Directive 2014/53/EU

The full text of this declaration is available at [www.sennheiser.com/download](http://www.sennheiser.com/download).

Before putting into operation, please observe the respective country-specific regulations.

Information about approvals and certifications can be found in the "Compliance" section.

### Statements regarding the FCC and Industry Canada rules

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

CAN ICES-3 (B)/NMB-3(B):

This Class B digital apparatus complies with the Canadian ICES-003. Changes or modifications not expressly approved by Sennheiser electronic Corp. could void the user's authority to operate the equipment.

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