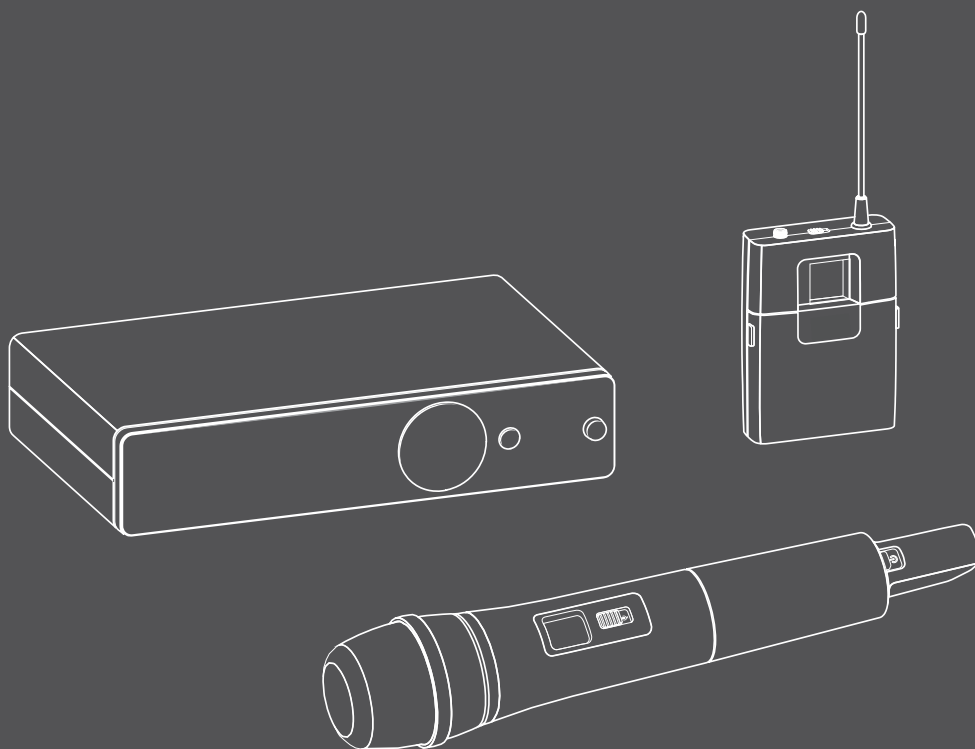


# XS WIRELESS 1



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 **SENNHEISER**

# 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	8 frequency banks, each with up to 10 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



Receiver principle	double superheterodyne
Diversity principle	antenna switching diversity via internal antennas
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	45 dB, adjustable in 5-dB steps
Power supply	12 V DC nom. / 300 mA
Squelch	adjustable from 3 dBμV to 28 dBμV (combined with pilot tone)
Line/Mic level	20 dB, switchable
Housing material	rugged ABS housing
Dimensions (W x H x D)	approx. 200 x 42 x 127 mm
Weight	approx. 340 g

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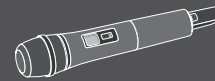
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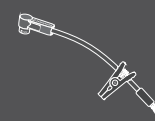
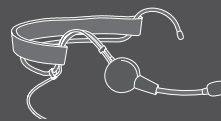
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## Transmitters

	SK	SKM 825	SKM 835
RF output power	10 mW		
AF frequency response	50 to 16,000 Hz (Line) 80 to 16,000 Hz (Mic)	80 to 14,000 Hz	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	2 AA size batteries, 1.5 V	
Operating time	approx. 10 hours		
Microphone type	–	dynamic	
Input sensitivity (capsule)	–	1.5 mV/Pa	
Pick-up pattern	–	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 84 mm (L x Ø)	
Weight	approx. 95 g	approx. 245 g	

## Microphones



	ME 2-2	ME 3-II	e 908T
Transducer principle	condenser, pre-polarized	condenser, pre-polarized	condenser, pre-polarized
Sensitivity	20 mV/Pa	1.6 mV/Pa	0.6 mV/Pa
Pick-up pattern	omni-directional	cardioid	super-cardioid
Max. SPL	130 dB	150 dB	147 dB





### In compliance with (EM, SK and SKM)

Europe		EMC	EN 301489-1/-3/-9
		Radio	EN 300422-2, EN 301440
		Safety	EN 60065, EN 62311 (SAR)

### Approved by (EM)

Canada:		Industry Canada RSS 210, RSS 310
USA:		IC: 2099A-EMXSW1
		FCC Part 15 B & C, FCC-ID: DMOEMXSW1

### Approved by (SK)

Canada:		Industry Canada RSS 210,
		IC 2099A-SKXSW
USA:		FCC-Part 74, FCC-ID: DMOXKXSW
		FCC-Part 15 C, limited to 698 MHz

### Approved by (SKM)

Canada:		Industry Canada RSS 210,
		IC 2099A-SKMXSW
USA:		FCC-Part 74, FCC-ID: DMOXKXSW
		FCC-Part 15 C, limited to 698 MHz

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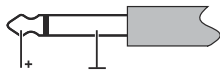
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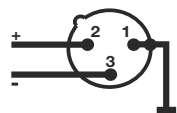
## Connector assignment

### EM

1/4" (6.3 mm) mono jack plug

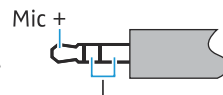
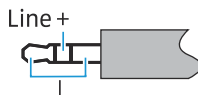


XLR-3 connector




### SK



3.5 mm jack plug



## NT 12-5CW power supply unit

Nominal input voltage	100 to 240 V~
Power frequency	50 or 60 Hz
Input current	max. 200 mA
Nominal output voltage	12 V 
Standby power consumption	≤ 0.1 W
Energy efficiency 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

### In compliance with:

Europe		EMC	EN 55032, EN 55024
		Safety	EN 60950-1
		RoHs	EN 50581
		Energy efficiency level	V
		Commission Regulation	278/2009 and 1275/2008 (EU) No.
USA/Canada		EMC	FCC 47 CFR 15 B ICES 003, CAN ICES-3(B)/NMB-3(B)
		Safety	UL 60950-1 CAN/CSA-C22.2 No. 60950-1
		Energy efficiency level	DOE Level VI
China		EMC	GB13837, GB17625
		Safety	GB8898
		RoHS	
Australia/New Zealand		EMC	AS/NZS CISPR 22
		Safety	AS/NZS 60950-1

## 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)  
 Please dispose of the products at the end of their operational lifetime by taking them to your local collection point or recycling center for such equipment.
- Battery Directive (2013/56/EU)  
 The supplied batteries can be recycled. Please dispose of them as special waste or return them to your specialist dealer. To protect the environment, only dispose of exhausted batteries.

### CE Declaration of Conformity

- 
- RoHS Directive (2011/65/EU)
- Radio Equipment Directive (2014/53/EU)
- EMC Directive (2014/30/EU)
- Low Voltage Directive (2014/35/EU)

The declaration is available at [www.sennheiser.com](http://www.sennheiser.com). Before putting into operation, please observe the respective country-specific regulations.

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## FCC

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 class B digital device complies with the Canadian ICES-003.

Changes or modifications made to this equipment not expressly approved by Sennheiser electronic Corp. may void the FCC authorization to operate this equipment. Before putting the device into operation, please observe the respective country-specific regulations!

### **Radiofrequency radiation exposure information:**

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. The XSW 1 should be installed and operated with a minimum distance of 20 cm between the radiator and your body.