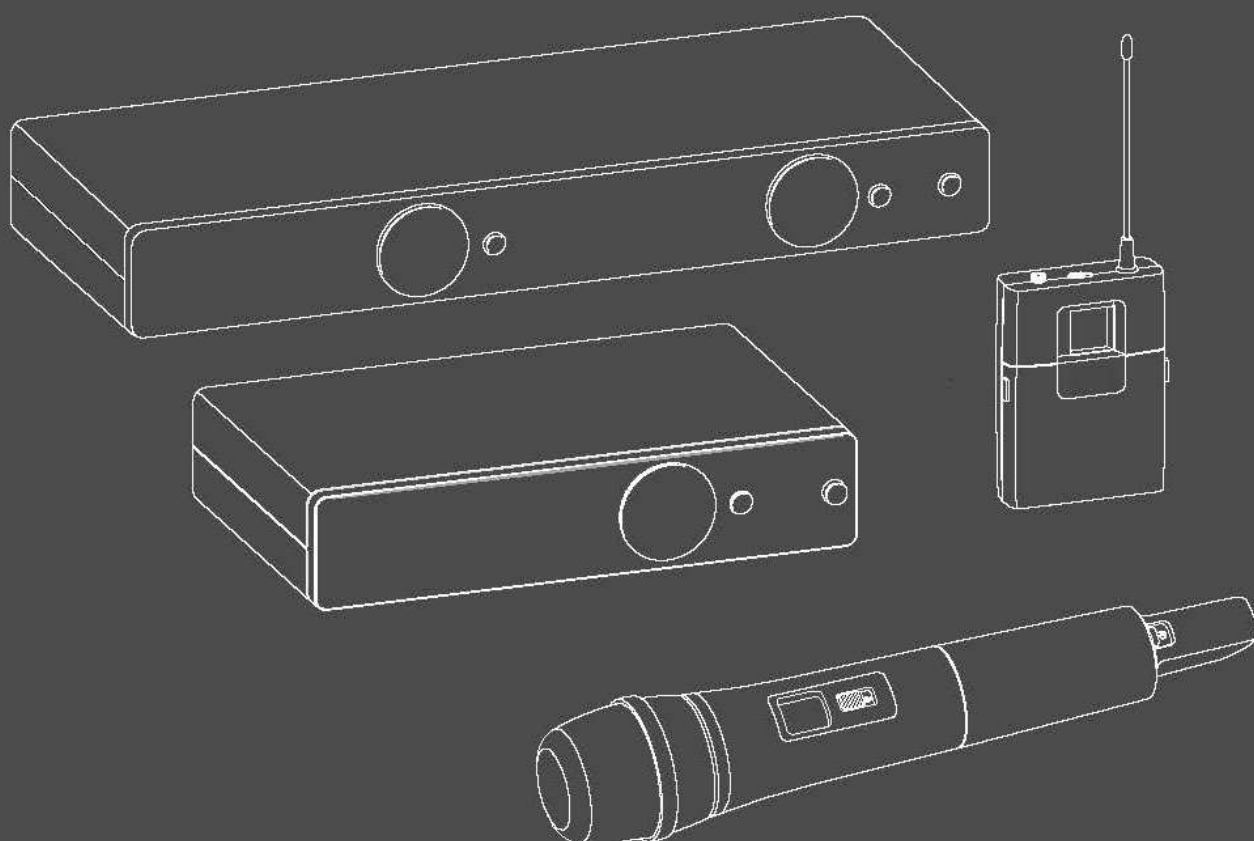


# XS WIRELESS 1



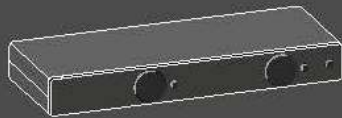
Technische Daten  
Specifications  
Caractéristiques techniques  
Dati tecnici  
Especificaciones técnicas  
Dados técnicos  
Technische specificaties  
Dane techniczne

Tekniska data  
Tekniske data  
Tekniset tiedot  
Τεχνικά χαρακτηριστικά  
Технические характеристики  
技术参数  
기술 데이터

# 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	$\geq 103$ dBA
THD	$\leq 0.9\%$
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)



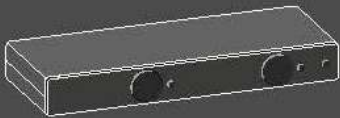
## Receiver

	EM-XSW1	EM-XSW1 DUAL
Receiver principle	double superheterodyne	
Diversity principle	antenna switching diversity via internal antennas	
Sensitivity (at peak deviation)	$< 3 \mu\text{V}$ at $52 \text{ dB(A)}_{\text{rms}}$ 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 $\overline{\text{---}}$ nom. / 300 mA	12 V $\overline{\text{---}}$ nom. / 500 mA
Squelch	adjustable from 3 dB $\mu\text{V}$ to 28 dB $\mu\text{V}$ (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	approx. 320 x 42 x 127 mm
Weight	approx. 340 g	approx. 610 g

# 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
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Transmitter synchronization	2.4 GHz, Low Power QPSK (only active during synchronization)

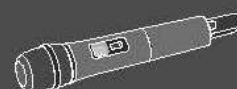


## Receiver

	EM-XSW1	EM-XSW1 DUAL
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 <sub>DC</sub> nom. / 300 mA	12 V <sub>DC</sub> nom. / 500 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	approx. 320 x 42 x 127 mm
Weight	approx. 340 g	approx. 610 g

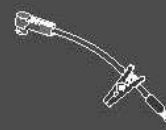
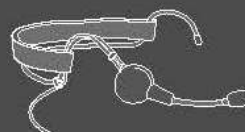


## Transmitters



SK-XSW	SKM-XSW	
	e 825	e 835
	10 mW	
50 to 16,000 Hz (Line) 80 to 16,000 Hz (Mic)	80 to 14,000 Hz	80 to 16,000 Hz
3.5 mm jack socket	—	
typ. 1.5 V <sub>RMS</sub> Mic/ typ. 2.6 V <sub>RMS</sub> Line @ -30 dB Gain	—	
2 AA size batteries, 1.5 V	2 AA size batteries, 1.5 V	
approx. 10 hours		
—	dynamic	
—	1.5 mV/Pa	
—	cardioid	
0 to -30 dB, adjustable in 10-dB steps		
rugged ABS housing		
approx. 71 x 96 x 28 mm (W x H x D)	approx. 260 x 50 mm (L x Ø)	
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	Cardioid
Max. SPL	130 dB	150 dB	147 dB

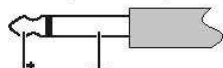
## NT 12-5CW power supply unit

Nominal input voltage	100 to 240 V~
Power frequency	50 or 60 Hz
Input current	≤ max. 200 mA
Nominal output voltage	12 V $\overline{\text{DC}}$
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

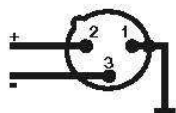
## Connector assignment

### EM-XSW1

1/4" (6.3 mm) mono jack plug

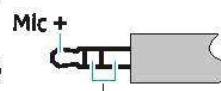
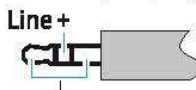


XLR-3 connector



### SK-XSW

3.5 mm jack plug



DE

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RU

ZH

KO

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 1 consisting of SKM-XSW, SK-XSW and EM-XSW1 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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COMPLIANCE

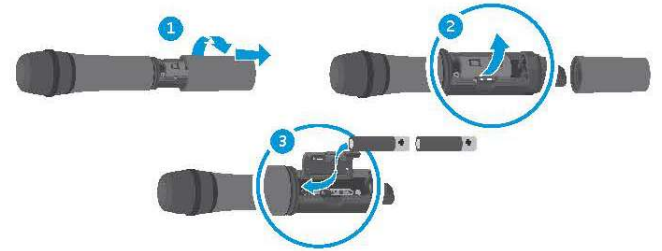
# XS WIRELESS 1 DUAL

## Quick Guide

Kurzanleitung | Guide rapide | Guida rapida | Guia de início rápido | Guia rápido | Beknopte handleiding | Krótka instrukcja obsługi | Snabbguide | Quickguide | Quick Guide | Γρήγορος οδηγός | Краткая инструкция | 快速指南 | 요약 설명서

In the box	Vocal Sets	
	XSW 1-825 DUAL	XSW 1-835 DUAL
XS WIRELESS 1 DUAL		
EM-XSW1 DUAL	1	1
NT 12-5CW		
SKM-XSW e825	2	-
SKM-XSW e835	-	2
MZQ 1	2	2
AA LR6 1.5 V	4	4

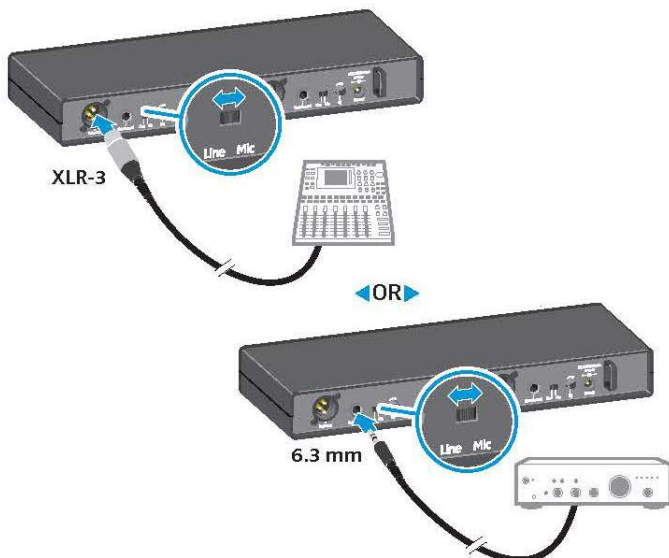
## Battery



## Low battery



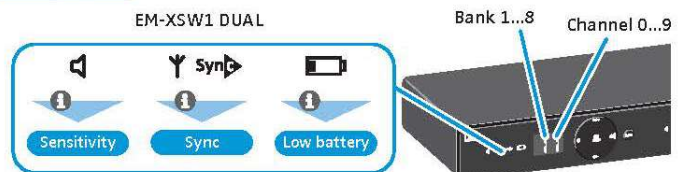
## Setup



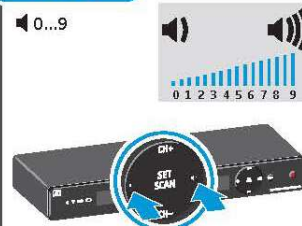
## On/off



## Display



## Volume



## Mute

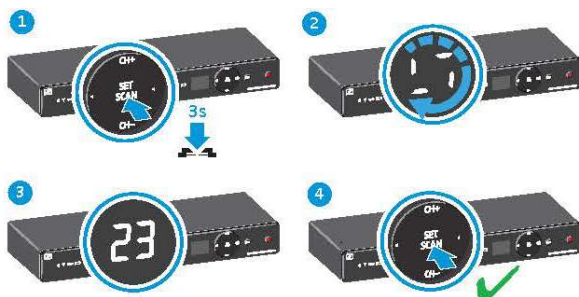




## Change frequency

### Automatically/Scan

Off

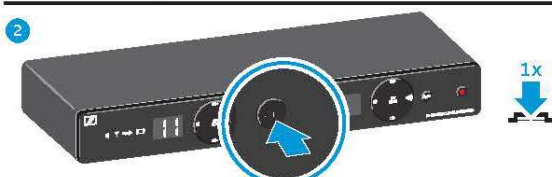
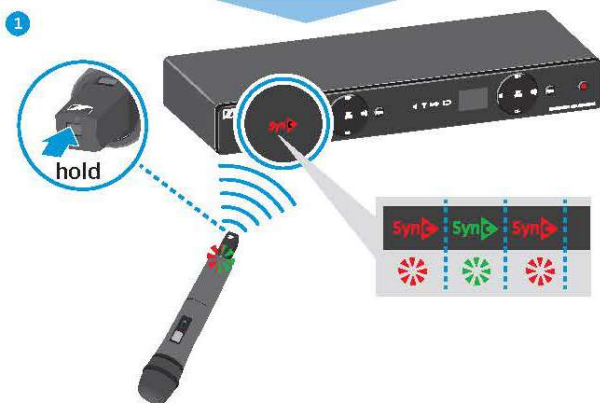


### Manually

Bank Channel



## Sync



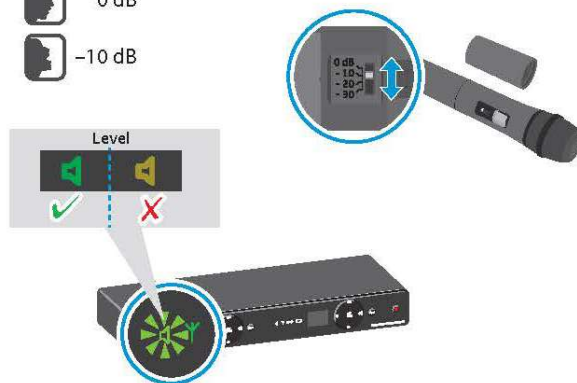
## Multichannel

Bank 1...8  
Ch. 0...9

max. 10 ch.				
Bank	Ch.	Bank	Ch.	
2	3	2	4	✓
1	1	1	2	✓
2	3	1	3	✗
2	3	2	3	✗

## Sensitivity

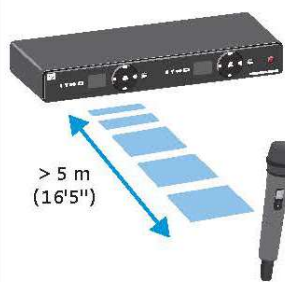
0 dB  
-10 dB



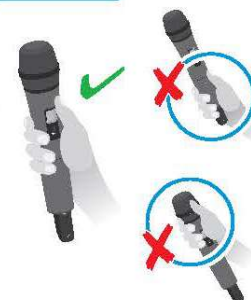
## Squelch



## Min. distance



## SKM





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Am Labor 1, 30900 Wedemark, Germany

[www.sennheiser.com](http://www.sennheiser.com)

Printed in Taiwan, Publ. 01/18, 571314/A04

## **FCC INFORMATION**

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

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.



This Class B digital apparatus complies with Canadian ICES-003.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 Canada.

Pour réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisis de façon que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.

Cet appareil est conforme à la norme RSS Industrie Canada exempts de licence norme(s).

Son fonctionnement est soumis aux deux conditions suivantes:

1. Cet appareil ne peut pas provoquer d'interférences et
2. Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.

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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

- 1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- 2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

- 1. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.
- 2. Cet appareil est conforme aux limites d'exposition aux rayonnements de la IC pour un environnement non contrôlé. L'antenne doit être installée de façon à garder une distance minimale de 20 centimètres entre la source de rayonnements et votre corps.

This device complies with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Déclaration d'exposition aux radiations Cet appareil est conforme aux limites d'exposition aux radiofréquences portables établies au Canada pour un environnement non contrôlé et ne présente pas de risque dans le cadre d'une utilisation conforme à celle décrite dans ce manuel. Une réduction accrue de l'exposition aux radiofréquences peut être obtenue en tenant l'appareil aussi éloigné que possible du corps humain ou en réglant l'appareil sur une puissance inférieure si cette fonction est disponible.