

Sennheiser EM-XSW 1-A

Sennheiser EM-XSW 1-A Wireless Receiver Instruction Manual

Model: EM-XSW 1-A

1. INTRODUCTION

This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your Sennheiser EM-XSW 1-A Wireless Receiver. The EM-XSW 1-A is a tabletop receiver designed for use with Sennheiser XSW wireless transmitters, operating within the A frequency range (548-572 MHz). It features internal, integrated antennas and 8 banks of 10 coordinated frequency presets for reliable wireless audio transmission.



Figure 1: Front view of the Sennheiser EM-XSW 1-A Wireless Receiver, showing the display and control buttons.

2. PACKAGE CONTENTS

Ensure all items are present in the package:

- Sennheiser EM-XSW 1-A Wireless Receiver
- Power Supply Unit
- Instruction Manual (this document)

3. PRODUCT OVERVIEW

3.1 Front Panel Controls and Indicators

- **Display:** Shows the current channel number and battery status.
- **CH+ / CH- Buttons:** Used for manual channel selection.
- **VOL+ / VOL- Buttons:** Adjust the audio output volume.
- **SET / SCAN Button:** Initiates frequency scanning to find clear channels and confirms settings.
- **SYNC Button:** Used to synchronize the receiver with a compatible Sennheiser XSW transmitter.
- **Power Button:** Turns the receiver on or off.

3.2 Rear Panel Connections



Figure 2: Rear view of the Sennheiser EM-XSW 1-A Wireless Receiver, illustrating the power input, 1/4-inch output, XLR output, and line/mic switch.

- **DC 12V Power Input:** Connect the provided power supply unit here.
- **1/4-inch (6.3mm) Output:** Unbalanced audio output for connecting to mixers or other audio equipment.
- **XLR Output:** Balanced audio output for professional connections to mixers or audio interfaces.
- **Line/Mic Switch:** Adjusts the output level to match the input sensitivity of your connected audio device. Select 'Line' for line-level inputs and 'Mic' for microphone-level inputs.

4. SETUP

Follow these steps to set up your EM-XSW 1-A Wireless Receiver:

1. **Power Connection:** Connect the provided DC 12V power supply unit to the power input on the rear panel of the receiver. Plug the power supply into a suitable electrical outlet.
2. **Audio Output Connection:** Connect the receiver to your mixer or audio system using either the 1/4-inch output or the XLR output. Use an XLR cable for balanced, professional connections, or a 1/4-inch cable for unbalanced connections.
3. **Output Level Selection:** Set the Line/Mic switch on the rear panel according to the input type of your mixer or audio device. Choose 'Line' for line-level inputs and 'Mic' for microphone-level inputs.
4. **Power On:** Press the Power button on the front panel to turn on the receiver. The display will illuminate.

5. OPERATING INSTRUCTIONS

5.1 Channel Selection and Scanning

To ensure optimal performance and avoid interference, it is recommended to scan for a clear frequency channel:

1. **Automatic Scan:** Press and hold the **SET / SCAN** button. The receiver will scan for the clearest available frequency channel in your environment. The display will show the selected channel.
2. **Manual Channel Selection:** Alternatively, use the **CH+** and **CH-** buttons to manually cycle through available channels. Press **SET / SCAN** to confirm your selection.

5.2 Synchronization with Transmitter

After selecting a channel on the receiver, you must synchronize it with your Sennheiser XSW wireless transmitter:

1. Ensure your transmitter is powered on and set to synchronization mode (refer to your transmitter's manual for specific instructions).
2. Press the **SYNC** button on the receiver. The receiver will send the selected frequency information to the transmitter.
3. Confirm successful synchronization on both the receiver and transmitter displays.

5.3 Volume Adjustment

Use the **VOL+** and **VOL-** buttons on the front panel to adjust the audio output level of the receiver. Monitor your mixer's input levels to prevent clipping or distortion.

5.4 Battery Indicator

The display on the front panel includes a battery life indicator for the connected wireless transmitter, allowing you to monitor its power status.

6. FREQUENCY MANAGEMENT AND INTERFERENCE

The EM-XSW 1-A operates on frequencies similar to Wi-Fi networks. To minimize potential interference:

- Always perform a channel scan using the **SET / SCAN** button to find the clearest frequency in your operating environment.
- Consider using a Wi-Fi scanner application on a smartphone or computer to identify congested Wi-Fi channels in your area. Avoid using receiver channels that overlap with heavily used Wi-Fi channels. Higher frequency channels are often less congested.
- Maintain a reasonable distance between the receiver and Wi-Fi routers or other wireless devices.

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Video 1: An overview of the Sennheiser XS Wireless 1 receiver, demonstrating its features, connections, and discussing frequency management for optimal performance.

7. MAINTENANCE

To ensure the longevity and optimal performance of your Sennheiser EM-XSW 1-A Wireless Receiver:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the receiver. Avoid using liquid cleaners or solvents, as they may damage the finish or internal components.
- **Storage:** Store the receiver in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** Handle the receiver with care to prevent physical damage. The unit is lightweight and features internal antennas, reducing the risk of external antenna damage.

8. TROUBLESHOOTING

If you encounter issues with your EM-XSW 1-A receiver, consider the following:

- **No Audio Output:**
 - Check all cable connections (power, audio output).
 - Ensure the receiver and transmitter are powered on and synchronized.
 - Verify the Line/Mic switch setting matches your mixer's input.
 - Adjust the receiver's volume using the VOL+ button.
- **Interference/Dropouts:**
 - Perform a channel scan to find a clearer frequency.
 - Ensure the receiver and transmitter are within effective operating range.
 - Minimize obstructions between the receiver and transmitter.
 - Check for nearby Wi-Fi routers or other wireless devices that might be causing interference.
- **Transmitter Battery Low:** The receiver's display will indicate low battery for the connected transmitter. Replace or recharge the transmitter's batteries as needed.

9. SPECIFICATIONS

Feature	Detail
Brand	Sennheiser
Model Name	EM-XSW 1-A
Connectivity Technology	UHF
Frequency Range	A (548-572 MHz)
Number of Channels	1 (8 banks of 10 coordinated frequency presets)
Signal-to-Noise Ratio	103 dB
Enclosure Material	Metal or Durable Plastic
Item Dimensions (L x W x H)	10 x 10.8 x 3.3 inches
Model Number	507308
UPC	615104281820

10. WARRANTY INFORMATION

The Sennheiser EM-XSW 1-A Wireless Receiver comes with a **2-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the official Sennheiser warranty policy or contact Sennheiser customer support.

11. SUPPORT

For further assistance, technical support, or service inquiries regarding your Sennheiser EM-XSW 1-A Wireless Receiver, please visit the official Sennheiser website or contact their customer service department. Contact information can typically be found on the Sennheiser website or in the product packaging.