Sennheiser 509146

Sennheiser XSW IEM SET Wireless In-Ear Monitoring System (Model 509146)

Instruction Manual

INTRODUCTION

The Sennheiser XSW IEM SET is a comprehensive wireless in-ear monitoring system designed for musicians and performers. This system provides clear, reliable audio monitoring for live performances, rehearsals, and various professional audio environments. It allows users to create a personalized stereo mix, ensuring optimal sound clarity and freedom of movement on stage.

WHAT'S INCLUDED

The Sennheiser XSW IEM SET package contains the following components:

- 1 x XSW IEM SR Stereo In-Ear Monitoring Wireless Transmitter (A: 476 to 500 MHz)
- 1 x XSW IEM EK Stereo Bodypack Wireless Receiver with IE 4 Earphones (A: 476 to 500 MHz)
- 1 x IE 4 In-Ear Stereo Earphones
- 1 x XSW BNC Antenna
- 1 x XSW Rackmount Kit
- 1 x NT 12-5 CW Power Supply
- 2 x AA Batteries
- 1 x Auray Carrying Bag for Wireless System (includes Accessory Pouch, Shoulder Strap, Adhesive Base Holder)

SETUP AND OPERATING INSTRUCTIONS

Follow these steps to set up and operate your Sennheiser XSW IEM SET:

1. Initial Connection and Power

Connect the XSW IEM SR Stereo Transmitter to its power supply and audio sources. Ensure the XSW IEM EK Stereo Bodypack Receiver has fresh AA batteries installed. Power on both the transmitter and receiver.

Figure 1: The Sennheiser XSW IEM SET showing the transmitter, bodypack receiver, and IE 4 earphones.

2. Finding a Free Frequency

Before checking for frequencies, ensure all other transmitters in your setup are powered off to avoid interference. **Important: Always remove your in-ear headphones before scanning for frequencies to prevent potential hearing damage from unexpected audio spikes.**

Use the RF (Radio Frequency) and AF (Audio Frequency) indicator bars on your receiver to identify clear channels. If you see even one faint bar on either indicator, that channel is likely occupied. Navigate through different banks and channels on your receiver until you find a channel where both RF and AF bars show no signal. This indicates a free channel.

Video 1: Official Sennheiser guide on how to find a clean frequency for your XSW IEM system.

3. Syncing the Receiver with the Transmitter

Once a free channel is identified on your receiver, set the same bank and channel on your XSW IEM SR transmitter. Use the 'Sync' function on the transmitter to wirelessly transfer the frequency settings to your receiver. This ensures both units are operating on the same clear frequency.

Figure 2: Front panel of the Sennheiser XSW IEM SR Stereo Transmitter, showing controls and display.

Figure 3: Sennheiser XSW IEM EK Stereo Bodypack Receiver connected to IE 4 earphones.

4. Audio Monitoring and Customization

Plug your IE 4 in-ear headphones into the bodypack receiver. You can adjust the volume directly on the receiver. The system offers features like stereo panning, Focus Mode, EQ, and limiter controls to customize your audio mix for optimal performance.

Video 2: An overview of the Sennheiser XSW IEM Wireless Monitoring System, highlighting its features and components.

FEATURES

- Designed for Live Stage, Rehearsal, and House of Worship applications.
- Includes XSW IEM EK Stereo Receiver and XSW IEM SR Stereo Transmitter.
- Offers 960 frequencies across 8 banks for flexible operation.
- Features Stereo Panning and Focus Mode for personalized mixes.
- Provides up to 6 hours of continuous use with two AA batteries in the receiver.
- Achieves a wireless range of up to 330 feet.
- Supports simultaneous operation of up to 12 transmitters in the same frequency band.
- Lightweight construction for ease of use and portability.
- Utilizes RF Wireless Communication Technology for stable audio transmission.
- IE 4 earphones feature Balanced Armature Drivers.
- Comes with a durable Nylon carrying case for protection and transport.

SPECIFICATIONS

Feature	Detail
Model Name	Sennheiser XSW IEM SET
Connectivity Technology	Wireless
Wireless Communication Technology	RF
Battery Life	6 Hours
Audio Driver Type	Balanced Armature Driver
Item Weight	7.26 pounds
Package Dimensions	15.98 x 12.4 x 8.94 inches
Manufacturer	Sennheiser
Item Model Number	509146
UPC	726667947990
Color	Black
Material	Nylon
Ear Placement	In Ear
Form Factor	In Ear
Noise Control	None

MAINTENANCE

To ensure the longevity and optimal performance of your Sennheiser XSW IEM SET, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe down the transmitter, receiver, and earphones with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the system components in the provided Auray carrying bag when not in use to protect them from dust, moisture, and physical damage.

- **Battery Care:** Remove AA batteries from the receiver if it will not be used for an extended period to prevent leakage.
- **Cable Management:** Handle cables carefully to prevent kinks or damage.

Troubleshooting

If you encounter issues with your Sennheiser XSW IEM SET, consider the following:

- **No Audio/Interference:** Re-scan for a clear frequency as described in the 'Setup and Operating Instructions' section. Ensure all connections are secure.
- **Weak Signal:** Check battery levels in the receiver. Ensure the transmitter and receiver are within the specified operating range (up to 330 feet line-of-sight) and that there are no major obstructions.
- **Distorted Audio:** Adjust input gain levels on the transmitter and volume on the receiver. Check for proper EQ and limiter settings.
- **Receiver Not Syncing:** Ensure the transmitter and receiver are close to each other during the sync process and that the IR windows are aligned.

Warranty and Support

Sennheiser products are known for their quality and reliability. For specific warranty information, technical support, or service inquiries, please refer to the documentation included with your product or visit the official Sennheiser website.