7RYMS iRay DW40

7RYMS iRay DW40 Wireless Lavalier Microphone System User Manual

Model: iRay DW40

1. Introduction

The 7RYMS iRay DW40 is a four-channel wireless lavalier microphone system designed for high-quality audio recording. It includes four transmitters and one receiver, allowing simultaneous audio capture from up to four individuals. This system features AI denoising, real-time monitoring, 48kHz/24bit audio recording, and versatile output options for compatibility with various devices.

Image 1.1: The 7RYMS iRay DW40 wireless microphone system, including the charging case, four transmitters, one receiver, and various connection cables and wind muffs.

2. Packing List

Please verify that all items are present in your package:

- Transmitter (TX) x 4
- Receiver (RX) x 1
- Charging Case x 1
- 2-in-1 Charging/Audio Output Cable x 1
- 3.5mm TRS-TRS Audio Cable x 1
- 3.5mm TRS-TRRS Audio Cable x 1
- Wind Muff x 4
- Carrying Pouch x 1
- User Manual x 1

Image 2.1: Visual representation of the complete packing list, including transmitters, receiver, charging case, cables, wind muffs, pouch, and user manual.

3. Component Overview

The iRay DW40 system consists of compact transmitters and a receiver, designed for portability and ease of use.

3.1. Transmitters (TX)

Each transmitter is a miniature unit equipped with an omnidirectional microphone, a clip for attachment, and a USB-C port for charging. It features a power button, AI denoise button, and volume adjustment controls.

3.2. Receiver (RX)

The receiver unit connects to your recording device. It includes a USB-C audio output port, a 3.5mm TRS audio output port, and a 3.5mm TRRS headphone monitor port for real-time audio monitoring.

3.3. Charging Case

The multi-functional charging case stores and charges all four transmitters and the receiver. It also facilitates one-click pairing of the units.

Image 3.1: Detailed dimensions of the mini transmitters, receiver, and the portable charging case, highlighting their compact design.

4. Setup Guide

4.1. Initial Charging

Before first use, fully charge the transmitters and receiver using the provided charging case and USB-C cable. Place all units into the charging case; charging indicators will illuminate.

4.2. Pairing

The transmitters and receiver are designed for one-click pairing when placed in the charging case. Ensure all units are in the case, close it, and then open it. They should automatically pair. If manual pairing is needed, refer to the detailed instructions in the included user manual.

4.3. Connecting to a Recording Device

Connect the receiver to your camera, smartphone, or computer using the appropriate cable:

- **For Cameras:** Use the 3.5mm TRS-TRS audio cable.
- **For Smartphones/Tablets (with 3.5mm jack):** Use the 3.5mm TRS-TRRS audio cable.
- **For USB-C Devices (Smartphones, Laptops, PCs):** Use the 2-in-1 Charging/Audio Output Cable or a dedicated USB-C to USB-C cable (not included for all devices).

Image 4.1: The receiver's digital (USB-C) and analog (3.5mm TRS/TRRS) output ports, demonstrating compatibility with cameras, smartphones, and computers.

4.4. Wearing the Transmitters

Attach the transmitters to the speaker's clothing using the integrated clip. For optimal audio quality and to minimize wind noise, attach the included wind muffs over the transmitter's microphone when recording outdoors or in windy conditions.

Image 4.2: Various flexible wearing options for the transmitter, including clip-on and using a wind muff for improved audio in different environments.

5. Operation

5.1. Power On/Off

Press and hold the power button on each transmitter and the receiver to turn them on or off.

5.2. AI Denoise Function

Each transmitter is equipped with an AI denoising feature. Short press the dedicated AI denoise button on the transmitter to activate or deactivate background noise reduction. This helps filter out environmental noise for clearer audio.

Image 5.1: The AI Denoise button on the transmitter, which can be short-pressed to toggle noise cancellation, improving audio clarity.

5.3. Real-time Monitoring

Connect headphones to the 3.5mm TRRS monitor port on the receiver to listen to the audio in real-time. This allows you to adjust recording conditions and ensure optimal sound quality during your session.

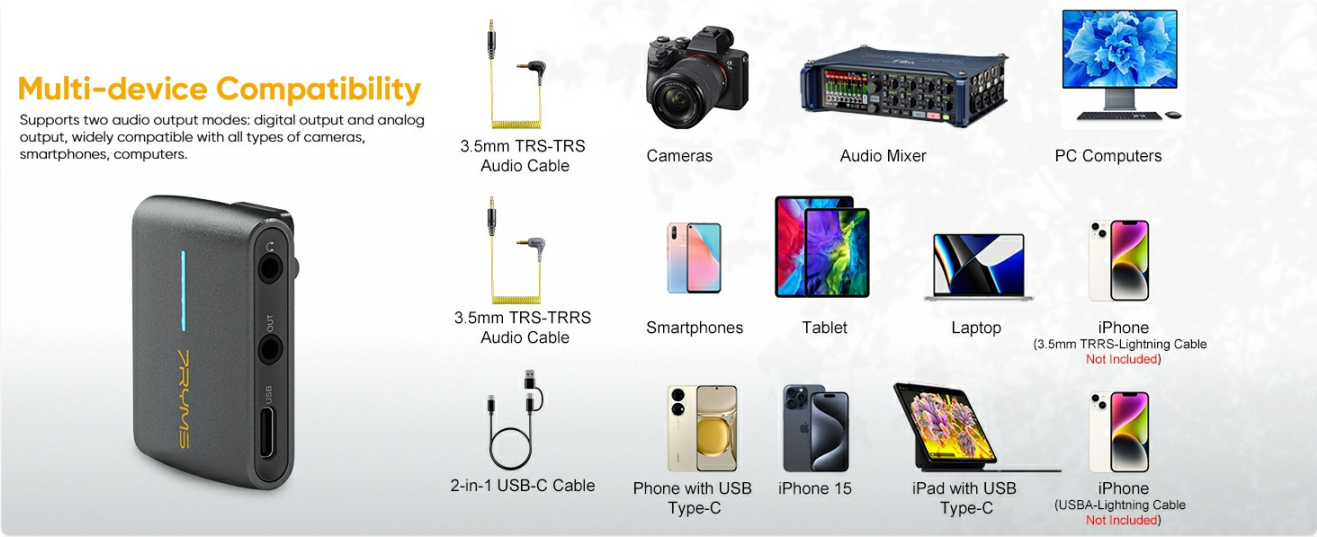


Image 5.2: The 3.5mm TRRS monitor port on the receiver, enabling real-time audio monitoring for precise sound control.

5.4. Volume Adjustment

Each transmitter features four-level volume adjustment. Use the volume controls on the side of the transmitter to set the desired input level.

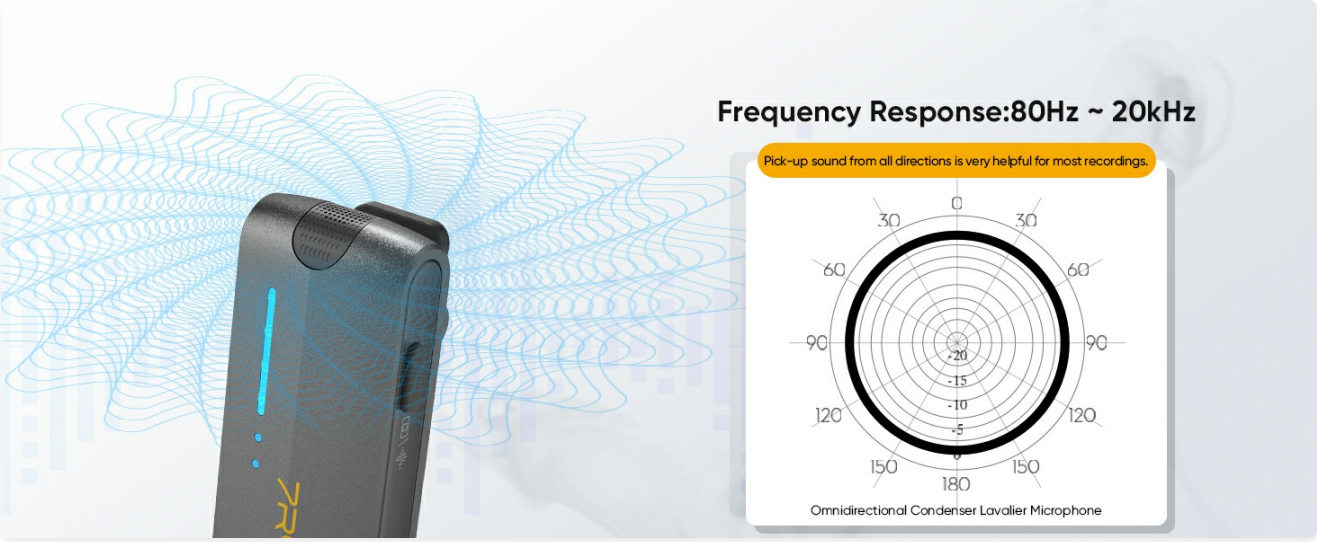


Image 5.3: The four-level volume adjustment slider on the side of the transmitter for precise audio input control.

5.5. Muting Function

Short press the mute button on the transmitter to instantly mute or unmute the microphone. This is useful for temporary interruptions during recording.

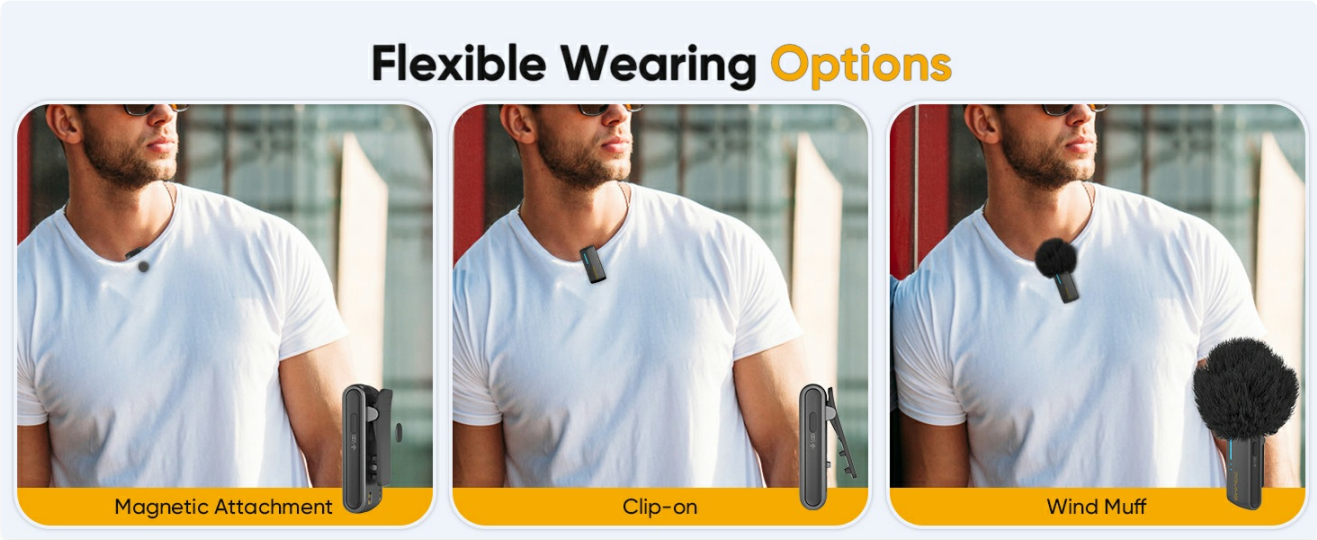


Image 5.4: Visual indicator of the mute function, showing both mute on and mute off states for quick reference.

5.6. Mono/Stereo Output Modes

The receiver supports both mono and stereo output modes. In mono mode, audio from all four channels is mixed into a single output. In stereo mode, channels A/C are output to the left channel and B/D to the right channel, providing separate audio streams for post-production flexibility.

Image 5.5: Explanation of Mono and Stereo output modes, showing how audio channels are combined or separated.

5.7. 48kHz/24bit Audio Recording

The system records audio at a high resolution of 48kHz/24bit, ensuring clear, natural, and broadcast-quality sound for your recordings.

Image 5.6: The transmitter highlighting its capability for 48kHz/24bit audio recording, delivering high-fidelity sound.

5.8. Wireless Range

The iRay DW40 system offers a wireless transmission range of up to 656 feet (200 meters) in open, unobstructed environments, with low latency of less than 20ms.

Image 5.7: Visual representation of the system's extensive 656ft wireless range and low latency, suitable for various recording scenarios.

6. Charging and Battery Life

The DW40 system is designed for extended use with efficient charging capabilities.

- **Single Charge:** Each transmitter provides approximately 5 hours of operation on a single full charge.
- **With Charging Case:** When used with the charging case, the total battery life for the system can extend up to 12.5 hours.
- **Charging While Recording:** All transmitters and the receiver are equipped with universal USB-C charging ports, allowing them to be charged even while actively recording, ensuring uninterrupted power for long sessions.

Image 6.1: The charging and storing case, illustrating its function in extending the system's operational time.

Image 6.2: The USB-C charging port, highlighting the ability to charge the units while they are in use for continuous recording.

7. Device Compatibility

The 7RYMS iRay DW40 offers broad compatibility with various recording devices through its digital (USB-C) and analog (3.5mm) output modes.

- **Cameras/Camcorders:** Compatible via 3.5mm TRS-TRS audio cable.
- **Smartphones (Android & iPhone):** Compatible with USB-C phones (e.g., Samsung S24/S23/22/21/20/10, Pixel, OnePlus) via USB-C cable. For iPhones with Lightning ports, an adapter cable (not included) is required. For phones with 3.5mm jacks, use the 3.5mm TRS-TRRS cable.
- **Laptops/MacBooks/Tablets:** Compatible via USB-C or appropriate adapter cables.
- **PC Computers:** Compatible via USB-C or 3.5mm connection.

Image 7.1: Multi-device compatibility of the DW40 system, showcasing connections to cameras, audio mixers, PCs, smartphones, tablets, and laptops.

8. Technical Specifications

Feature	Specification
Brand	7RYMS
Model Name	iRay DW40
Microphone Form Factor	Lavalier
Polar Pattern	Omnidirectional
Connectivity Technology	Wireless 2.4Ghz
Connector Type	3.5 mm Jack, USB Type-C
Number of Channels	4
Audio Sensitivity	100 Decibels
Signal-to-Noise Ratio	70 dB
Frequency Response	80 Hz - 20 kHz
Power Source	Battery Powered (Lithium Ion)
Operating Time (Single Charge)	Up to 5 hours
Operating Time (with Charging Case)	Up to 12.5 hours
Wireless Range	656 feet (200 meters)
Item Weight	0.28 Kilograms (9.9 ounces)
Product Dimensions (L x W x H)	6.3 x 1.57 x 7.09 inches
Material	Metal, Plastic
Special Features	Four-channel, AI Denoise, 48kHz/24bit Recording, Real-time Monitoring, Muting, M/S Switch, Volume Control

9. Maintenance

To ensure the longevity and optimal performance of your 7RYMS iRay DW40 system, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the transmitters, receiver, and charging case. Avoid using liquid cleaners or solvents.
- **Storage:** Store the system in its charging case when not in use to protect it from dust and physical damage. Store in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For long-term storage, ensure the batteries are charged to approximately 50-70% to preserve battery health. Recharge periodically if stored for extended periods.
- **Cable Care:** Handle cables gently to prevent damage to connectors and wiring.

10. Troubleshooting

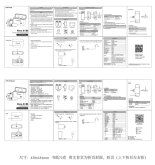
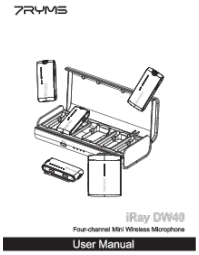
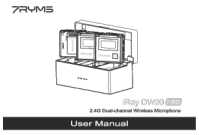
If you encounter issues with your 7RYMS iRay DW40 system, refer to the following common problems and solutions:

- **No Sound Output:**
  - Ensure all transmitters and the receiver are powered on.
  - Verify that the transmitters are successfully paired with the receiver.
  - Check all cable connections between the receiver and your recording device. Ensure the correct cable (TRS for cameras, TRRS for smartphones, USB-C for digital) is used and securely connected.
  - Confirm the recording device's input settings are correctly configured to recognize the external microphone.
  - Check the volume levels on both the transmitters and your recording device.
- **Poor Audio Quality / Background Noise:**
  - Activate the AI Denoise function on the transmitters.
  - Ensure wind muffs are used in windy environments.
  - Check for obstructions or excessive distance between the transmitters and receiver.
  - Adjust the transmitter's volume to avoid clipping or low signal.
  - Minimize interference from other 2.4GHz wireless devices.
- **Transmitters Not Charging:**
  - Ensure the charging case is connected to a power source and the charging cable is functional.
  - Verify that the transmitters are correctly seated in the charging case.
  - Check the charging indicators on the case and transmitters.
- **Intermittent Connection:**
  - Reduce the distance between the transmitters and receiver.
  - Ensure there are no major physical obstructions (e.g., thick walls, large metal objects) between the units.
  - Avoid environments with high 2.4GHz wireless traffic.

11. Warranty and Support

For warranty information and technical support, please refer to the warranty card included in your package or visit the official 7RYMS website. You can also contact 7RYMS customer service directly for assistance with product issues or inquiries.
Visit the 7RYMS Store: 7RYMS Official Store

Related Documents - iRay DW40

	[7RYMS Rimo S1 LN Wireless Microphone System User Manual] Comprehensive user manual for the 7RYMS Rimo S1 LN 2.4G Dual-channel Wireless Microphone System. Learn about features, specifications, usage, and troubleshooting for this iPhone-compatible lavalier microphone.
	[7RYMS iRay DW40 Four-channel Mini Wireless Microphone User Manual] Comprehensive user manual for the 7RYMS iRay DW40 four-channel mini wireless microphone system, detailing features, packing list, component descriptions, installation, usage, specifications, and regulatory information.
	[7RYMS iRay UW10 UHF Wireless Microphone System - User Guide] Comprehensive user guide for the 7RYMS iRay UW10 broadcasting-level multi-functional mini UHF wireless microphone system. Learn about features, installation, operation, and troubleshooting.
	[7RYMS iRay DW20 PRO 2.4G Dual-channel Wireless Microphone User Manual] Comprehensive user manual for the 7RYMS iRay DW20 PRO, a 2.4G dual-channel wireless microphone system. Learn about its features, components, installation, usage, and specifications for optimal audio recording.
	[7RYMS iRay DW40 User Manual: Four-Channel Mini Wireless Microphone Guide] This user manual for the 7RYMS iRay DW40 four-channel mini wireless microphone system provides comprehensive guidance on its features, components, installation, usage, and specifications. It details how to set up and operate the device for high-quality audio recording across various platforms like cameras, smartphones, and PCs, emphasizing its low latency and extended range.
	[7RYMS MinBo Mini Compact Cardioid Condenser On-Camera Microphone User Guide] User guide for the 7RYMS MinBo Mini, a compact cardioid condenser on-camera microphone. Details features, item checklist, installation, operation, and technical specifications.