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## 7RYMS iRay DW30

# 7RYMS iRay DW30 Wireless Lavalier Microphone System User Manual

Model: iRay DW30

## INTRODUCTION

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The 7RYMS iRay DW30 is a 2.4G dual-channel wireless lavalier microphone system designed for high-quality audio recording across various platforms. It features onboard recording with 8GB of internal memory, intelligent noise cancellation, and versatile output options for cameras, smartphones, PCs, and more. This manual provides essential information for setting up, operating, and maintaining your device.

## Key Features

- **Onboard Recording with 8GB Memory:** Built-in 8GB memory stores 48 KHz / 16 bit audio for up to 24 hours, serving as a voice recorder and backup.
- **Multi-functional Charging Case:** Stores and charges the clip-on microphones. Features 4 LED indicators for battery level (25%, 50%, 75%, 100%). Can charge one receiver and two transmitters twice when fully charged.
- **Two Audio Signal Output Methods:** USB-C port for digital signal connection to smartphones, computers, and iPhones. 3.5mm port for analog signal connection to cameras, smartphones, or computers.
- **2.4G Dual Wireless Pin Microphone:** Broadcast-quality omni-directional microphone. Supports mono or stereo mode for editing flexibility. Safety mode records backup audio at -6dB to prevent clipping.
- **328ft (100m) Transmission Distance:** Offers a stable and uninterrupted working distance in unobstructed areas, suitable for complex environments.

## PACKAGE CONTENTS

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- 16GB microSD card
- Lapel microphone (2 units)
- Receiver (1 unit)
- Charging Case
- USB-C to USB-A Charging Cable
- 3.5mm TRS-TRS Cable
- 3.5mm TRS-TRRS Cable
- Wind Muffs (2 units)

# Large Capacity Lithium Battery



Durable and fully guaranteed battery life

Charge Time  
**2**  
Hours

Continuously Recording  
**6**  
Hours

Usage Time  
(with Charging Case)  
**18**  
Hours



Image: All components included in the 7RYMS iRay DW30 Wireless Lavalier Microphone System package.

## PRODUCT OVERVIEW

### Transmitter (TX) and Receiver (RX) Units



Image: The transmitter (TX) and receiver (RX) units of the 7RYMS iRay DW30 system, showcasing their compact design and display screens.

Each unit features a clear LCD screen displaying essential information such as battery status, recording time, and audio levels. The transmitters include a built-in omni-directional microphone and a 3.5mm input for an external lavalier microphone. Both units have a clip for easy attachment.

### **Intelligent Denoise Function**



Image: The transmitter unit with a visual representation of its intelligent denoise capability, filtering environmental noise for clear audio.

The intelligent denoise feature can be activated with a single click, effectively filtering out environmental noise to deliver crystal-clear audio recordings.

### **Onboard Recording and Storage**



Image: The transmitter's screen showing recording duration, indicating its 16GB internal memory for up to 48 hours of audio storage.

Each transmitter has 8GB of built-in memory, allowing for up to 24 hours of 48 KHz / 16 bit audio recording. This provides a reliable backup in case of wireless signal interruptions.

## Multi-functional Charging Case



Image: The charging case open, showing the receiver and transmitters docked for charging, with LED battery indicators visible.

The included charging case not only protects and stores the units but also recharges them. It features LED indicators to show the remaining power of the case itself. A full charge allows for approximately 6 hours of use per unit, and the case can provide two full recharges for the system.

## SETUP

### Charging the System

1. Place the transmitter(s) and receiver into the charging case.
2. Connect the charging case to a USB power source using the provided USB-C cable.
3. The LED indicators on the case will show the charging status.

### Powering On/Off

- To power on: Press and hold the power button on each unit for 3 seconds.
- To power off: Press and hold the power button on each unit for 3 seconds.

### Connecting to Recording Devices



Image: The receiver unit demonstrating connections to a smartphone, camera, and laptop using different cables.

1. **For Cameras:** Use the 3.5mm TRS-TRS cable to connect the receiver's OUT port to your camera's microphone input.
2. **For Smartphones (3.5mm jack):** Use the 3.5mm TRS-TRRS cable to connect the receiver's OUT port to your smartphone's headphone/mic jack.
3. **For Smartphones/Computers (USB-C):** Connect the receiver directly via its USB-C port for digital audio output.
4. **For iPhones (Lightning):** An additional Lightning to 3.5mm jack adapter (not included) is required to connect the 3.5mm TRS-TRRS cable.

## Pairing Transmitters and Receiver

The units are typically pre-paired from the factory. If re-pairing is needed, refer to the detailed instructions in the included user manual. Generally, pressing the 'Pair' button on both the transmitter(s) and receiver will initiate the pairing process.

## OPERATING INSTRUCTIONS

### Recording Modes (Mono/Stereo/Safety)



Image: The receiver's display illustrating the different recording modes: Mono, Stereo, and Safety Track, offering ultimate flexibility.

- **Mono Mode:** Combines audio from both transmitters into a single mono track.
- **Stereo Mode:** Records audio from each transmitter onto separate left and right channels.
- **Safety Mode:** Records a backup track at -6dB alongside the main track to prevent audio clipping.

## Onboard Recording

- To start/stop onboard recording on a transmitter, press the dedicated 'REC' button.
- The LCD screen will display the recording status and duration.

## Gain Adjustment

The receiver allows for 12-level gain control to fine-tune audio input levels, preventing distortion and ensuring optimal sound quality.

## Real-time Monitoring and Mute

- Plug headphones into the receiver's headphone jack for real-time audio monitoring.
- Press the mute button on the transmitter to instantly mute the microphone.

## File Transfer

Connect the transmitter unit to a computer via USB-C to access and transfer recorded audio files from its internal 8GB memory.

## COMPATIBILITY

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Image: A diagram illustrating the multi-device compatibility of the 7RYMS iRay DW30, showing connections to phones, cameras, camcorders, GoPros, and laptops.

The 7RYMS iRay DW30 is widely compatible with a range of devices, including:

- Cameras
- Laptops
- Personal Computers
- Smartphones (iPhone, Android)

## MAINTENANCE

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### Charging

Regularly charge the transmitters, receiver, and charging case to ensure optimal performance. Use the provided USB-C cable for charging.

### Storage

Store the microphone system in its multi-functional charging case when not in use to protect the units and keep

them charged.

## TECHNICAL SPECIFICATIONS

Feature	Specification
Audio Sensitivity	6 Decibels
Impedance	1000 Ohms
Microphone Form Factor	Microphone System
Power Source	Battery Powered (3 9V batteries included)
Signal-to-Noise Ratio	80 dB
Hardware Platform	Camera, Laptop, PC, Smartphone
Number of Channels	2
Frequency Response	48 KHz
Item Weight	1.7 pounds
Package Dimensions	7.36 x 5.87 x 2.72 inches
Color	Black
Recommended Uses	Streaming, Vlogging, Filming, Voice Recording
Connectivity Technology	USB
Connector Type	USB
Special Feature	16GB Internal Recording, Built-in/External Lav Mic, Dual Channel Lossless Pickup, One-click Noise Cancellation, Safety/Mono/Stereo Output
Polar Pattern	Unidirectional

## TROUBLESHOOTING

- **No Sound:** Ensure all units are powered on, correctly paired, and connected to the recording device. Check audio input settings on your recording device.
- **Poor Audio Quality:** Check microphone placement, activate denoise function if in a noisy environment, and adjust gain levels to prevent clipping.
- **Connection Drops:** Ensure the transmitters and receiver are within the 328ft (100m) operating range in an

unobstructed area. Avoid strong interference sources.

- **Battery Issues:** Check battery indicators on units and charging case. Recharge as needed.

## OFFICIAL PRODUCT VIDEOS

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Your browser does not support the video tag.

Video: 7RYMS DW Series wireless lavalier microphone. This video provides an overview of the 7RYMS DW series, highlighting key features and use cases.

Your browser does not support the video tag.

Video: 7RYMS iRay DW30 Wireless lavalier microphone. This video demonstrates the features and functionality of the 7RYMS iRay DW30 wireless lavalier microphone.

## WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please refer to the contact details provided in the product packaging or visit the official 7RYMS website. Keep your purchase receipt for warranty claims.