## DJI Ronin RavenEye Image Transmission System

# DJI Ronin RavenEye Image Transmission System User Manual

Model: Ronin RavenEye Image Transmission System

## Introduction

The DJI Ronin RavenEye Image Transmission System is designed to enhance your filmmaking experience by providing real-time camera view and advanced tracking capabilities. This system allows for seamless integration with compatible DJI Ronin gimbals, enabling features such as live monitoring and ActiveTrack 3.0.
This manual provides comprehensive instructions for setting up, operating, and maintaining your RavenEye Image Transmission System to ensure optimal performance and longevity.

## Package Contents

Please verify that all items listed below are included in your package:

- Image Transmitter × 1
- Cold Shoe to 1/4"-20 Adapter × 1
- USB-C Charging Cable (40 cm) × 1
- USB-C Power Cable (20 cm) × 1
- Mini-HDMI to HDMI Cable (20 cm) × 1
- Mini-HDMI to Mini-HDMI Cable (20 cm) × 1
- Mini-HDMI to Micro-HDMI Cable (20 cm) × 1
- M4 Screw × 2
- Allen Wrench (3 mm) × 1




Figure 1: Complete package contents of the RavenEye Image Transmission System.

## Specifications

| Feature | Detail |
| --- | --- |
| Working Frequency | 2.400-2.4835 GHz, 5.725-5.850 GHz |
| Weight | 126 g (4.4 ounces) |
| Dimensions (L×W×H) | 82 mm x 63 mm x 24 mm (3.23 x 2.48 x 0.94 inches) |
| Transmission Power (EIRP) 2.4 GHz | <25dBm (FCC), <20dBm (CE/SRRC/MIC) |
| Transmission Power (EIRP) 5.8 GHz | <25dBm (FCC/SRRC), <14dBm (CE) |
| Compatible Gimbals | DJI Ronin-S, Ronin-SC, DJI RS 2, DJI RSC 2 |
| UPC | 723509604080 |

## Setup

Follow these steps to properly set up your RavenEye Image Transmission System with your DJI Ronin gimbal and camera.

1. **Mounting the RavenEye:** Attach the RavenEye Image Transmission System to your gimbal. Use the provided Cold Shoe to 1/4"-20 Adapter if necessary, and secure it with the M4 screws and Allen wrench. Ensure the unit is firmly attached and does not interfere with gimbal movement.



Figure 2: RavenEye mounted on a DJI Ronin gimbal.

2. **Connecting to Camera:** Connect the RavenEye to your camera using the appropriate HDMI cable (Mini-HDMI to HDMI, Mini-HDMI to Mini-HDMI, or Mini-HDMI to Micro-HDMI). Ensure the HDMI cable is securely plugged into both the RavenEye's HDMI input and your camera's HDMI output.




Figure 3: HDMI connection between RavenEye and camera.

3. **Power Connection:** Connect the RavenEye to a power source using the USB-C Power Cable. This can typically be

a power port on your gimbal or an external power bank.




Figure 4: Power connection to the RavenEye unit.

4. **Smartphone Connection:** Download and install the DJI Ronin app on your smartphone. Connect your smartphone to the RavenEye's Wi-Fi network. The Wi-Fi SSID and password are usually found on a sticker on the RavenEye unit or in the quick start guide.




Figure 5: Full setup with smartphone monitoring.

## Operating Instructions

The RavenEye Image Transmission System provides advanced monitoring and control features when paired with compatible DJI Ronin gimbals.

- **Live Camera View:** The system allows for a live camera view to be transmitted directly to the touchscreen of DJI RS 2 and through the Ronin app on your smartphone. This enables real-time monitoring of your shot.
- **ActiveTrack 3.0:** When used with DJI RS 2 and DJI RSC 2, the RavenEye enables ActiveTrack 3.0. This feature allows the gimbal to automatically track a selected subject, keeping it in frame.
- **Remote Control:** For DJI RSC 2 users, the RavenEye enables remote control of the gimbal and monitoring via the Ronin app. Note that the built-in screen of the RSC 2 cannot be used for live camera view transmission with RavenEye.
- **Compatibility Notes:**
    - For Ronin-S and Ronin-SC, the RavenEye currently does not support remote gimbal control or ActiveTrack 3.0.
    - The system mounts to the gimbal and connects to the camera via HDMI cable and to the smartphone via Wi-Fi.

## Maintenance

Proper maintenance ensures the longevity and reliable performance of your RavenEye Image Transmission System.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the RavenEye unit. Avoid using liquid cleaners or solvents, as they may damage the device. Ensure all ports are free of dust and debris.
- **Storage:** When not in use, store the RavenEye in a cool, dry place, away from direct sunlight and extreme temperatures. It is recommended to store it in its original packaging or a protective case to prevent physical damage.
- **Cable Care:** Handle all cables with care. Avoid sharp bends or excessive pulling, which can damage the internal wires. Disconnect cables by gripping the plug, not the cable itself.

## Troubleshooting

If you encounter issues with your RavenEye Image Transmission System, refer to the following common troubleshooting steps:

| Problem | Possible Cause / Solution |
| --- | --- |
| **No Live Camera View / Intermittent Signal** | ◦ Ensure all HDMI and power cables are securely connected.<br>◦ Verify that the camera's HDMI output settings are correct and compatible with the RavenEye.<br>◦ Check Wi-Fi connection between the RavenEye and your smartphone. Try reconnecting.<br>◦ Restart both the RavenEye and the gimbal.<br>◦ Ensure there are no strong wireless interferences in the environment. |
| **RavenEye Unit Feels Warm** | ◦ It is normal for the unit to generate some heat during operation, especially during prolonged use or in warm environments.<br>◦ Ensure adequate ventilation around the unit.<br>◦ If the unit becomes excessively hot or exhibits unusual behavior, power it off and contact support. |
| **Cannot Connect to Ronin App** | ◦ Ensure the Ronin app is updated to the latest version.<br>◦ Verify that your smartphone's Wi-Fi is enabled and connected to the RavenEye's network.<br>◦ Try forgetting the network on your phone and reconnecting.<br>◦ Restart your smartphone and the RavenEye. |

## Warranty and Support

For detailed warranty information and terms of service, please refer to the warranty card included with your product or visit the official DJI website. Keep your proof of purchase for warranty claims.
If you require technical assistance or have questions not covered in this manual, please contact DJI Customer Support through their official channels. You can find contact information on the DJI website: www.dji.com/support

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