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› Hollyland Mars 400S PRO II Wireless Video System User Manual

Hollyland Mars 400S PRO II

Hollyland Mars 400S PRO II Wireless Video System User Manual

Model: Mars 400S PRO II

1. PRODUCT OVERVIEW

The Hollyland Mars 400S PRO II is a high-performance wireless video transmission system designed for professional videography and filmmaking. It offers ultra-low latency and extended transmission range, making it suitable for real-time monitoring and live streaming applications. This system features dual SDI and HDMI interfaces, flexible monitoring options, and robust construction.



Figure 1: The Hollyland Mars 400S PRO II receiver unit, showcasing its compact design and antenna ports.

2. KEY FEATURES

- **Ultra-Low Latency & Extended Range:** Experience an ultra-low latency of 70ms and a stable line-of-sight transmission range of up to 450ft (150m). This ensures real-time video monitoring for critical applications.
- **SDI+HDMI Dual Interfaces:** Equipped with both SDI and HDMI input/output ports, providing wide compatibility with various cameras and monitoring devices, from DSLRs to professional film cameras. Both SDI and HDMI OUT ports support simultaneous video output.
- **Flexible APP Monitoring:** Supports monitoring on up to 4 mobile devices via the Hollyview App, or a combination of 1 receiver and 2 apps, or 2 receivers.
- **High-Definition Video Transmission:** Supports up to 1080p video format with a data rate increased to 12Mbps for enhanced HD monitoring quality.
- **Smart Channel Scan & Direct Live Streaming:** Automatically selects the best frequency channels upon startup.

Manual channel selection is available via the receiver or Hollyview App. Supports direct video feed from the receiver to PC for live streaming (OBS, vMix, VLC) without an additional capture device.

- **Multiple Power Supply Options:** Compatible with NP-F batteries (not included), 6~16V DC power, and 5-12V USB Type-C wide voltage power supply.
- **Flexible Fan Control Modes:** Features three fan speed adjustment modes (Off, Low Speed, Auto) for optimal performance and reduced device temperature in various scenarios.
- **Integrated Cold Shoe:** Simplifies installation with a built-in 1/4-inch threaded cold shoe for seamless mounting.

Mars 400s Pro II

Unleash Wireless Possibilities

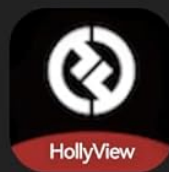


450 ft
LOS Range

70 ms
Latency



HDMI/SDI IN/OUT Port



All-Rounder APP



Zinc Alloy Shell



Multiple Monitor Mode



Adjustable Fan



Obvious TX/RX



Auto Channel Scan



Integrated Cold Shoe

Figure 2: Overview of key features including 450ft LOS range, 70ms latency, SDI/HDMI ports, Hollyview App, Zinc Alloy Shell, multiple monitor modes, adjustable fan, TX/RX indicators, auto channel scan, and integrated cold shoe.

Faster & Farther Pro II



450 ↑
ft LOS range **12.5%**

70 ↓
ms latency **30%**

Figure 3: Visual representation of the improved 450ft LOS range (12.5% increase) and 70ms latency (30% reduction) compared to previous models.

3. SETUP GUIDE

3.1 Unpacking and Inspection

Carefully unpack all components and verify against the packing list. Ensure no items are missing or damaged. The standard package includes:

- Transmitter x1
- Receiver x1
- DC Adapter x1
- Antenna x5
- User Manual x1
- After-Sales Card x1

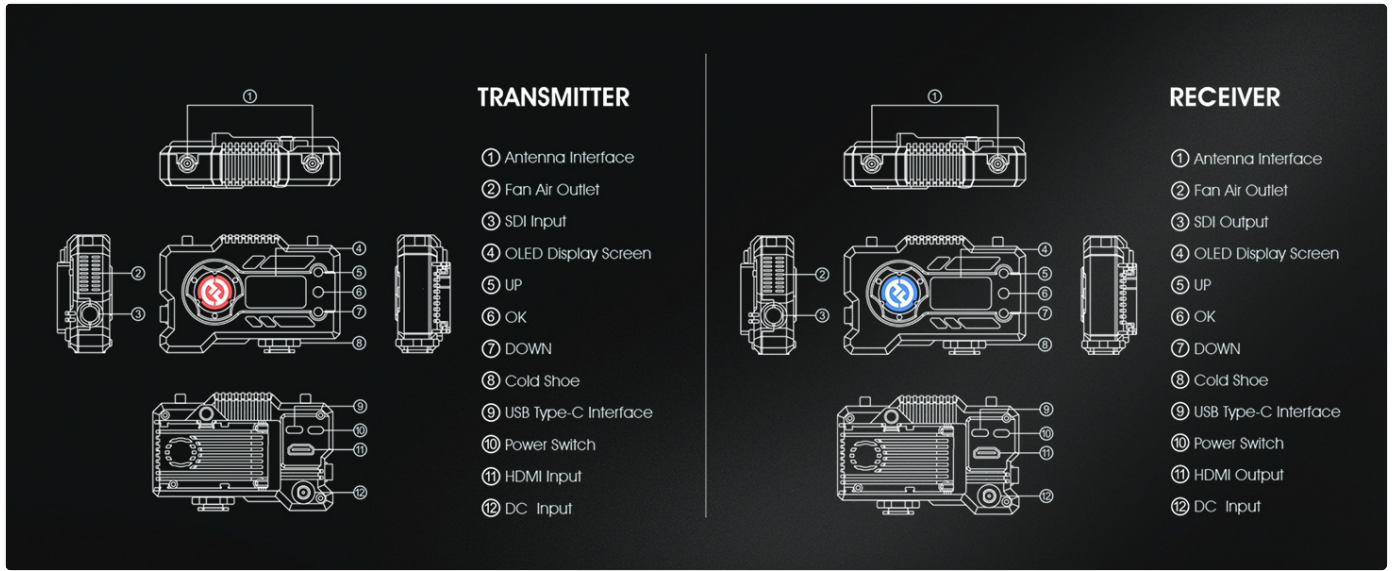


Figure 4: Contents of the Hollyland Mars 400S PRO II package, including the transmitter, receiver, DC adapter, antennas, user manual, and after-sales card.

3.2 Component Identification

Familiarize yourself with the ports and controls on both the transmitter (TX) and receiver (RX) units.



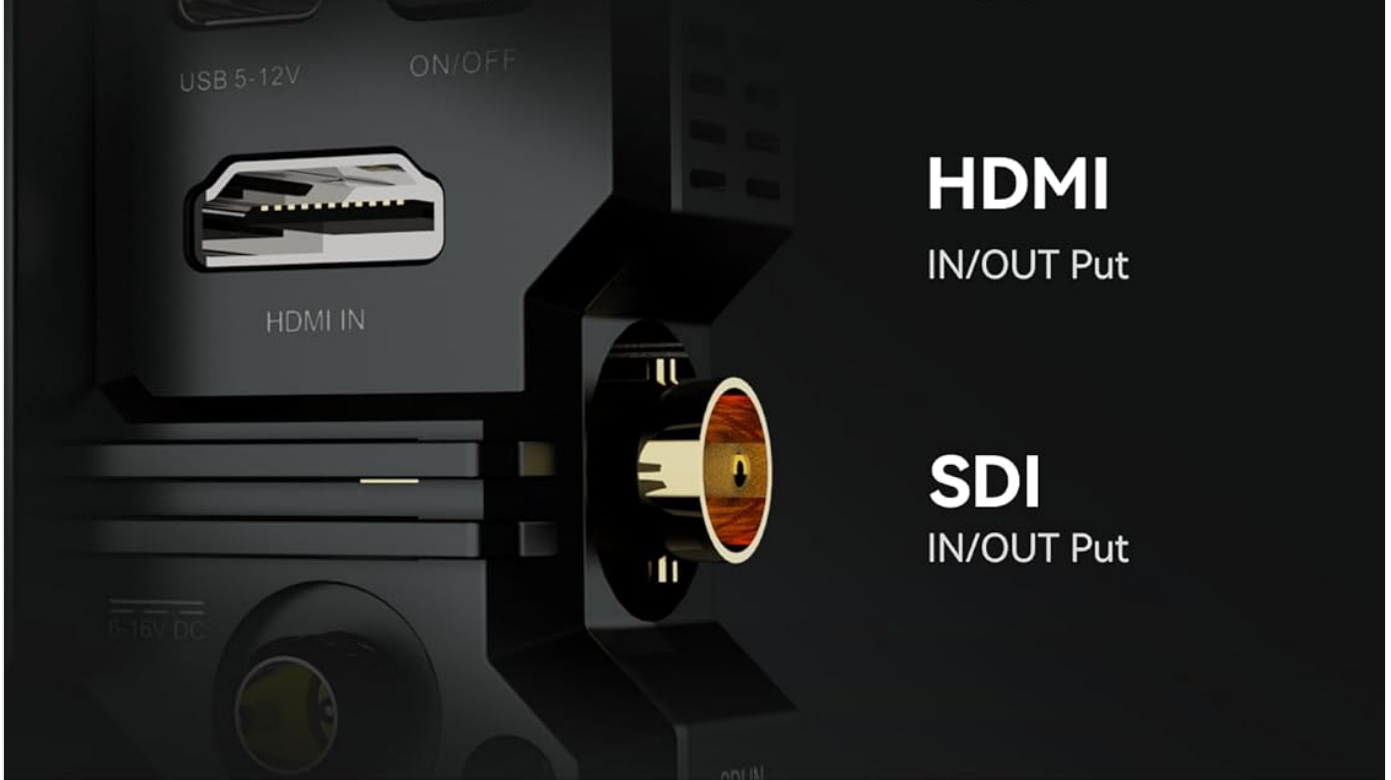
Figure 5: Detailed diagrams illustrating the various interfaces and controls on both the transmitter and receiver units, such as antenna interfaces, fan air outlets, SDI/HDMI ports, OLED display, control buttons, cold shoe, USB Type-C, and power switch.

3.3 Powering the Device

The Mars 400S PRO II offers versatile power options:

- **NP-F Battery:** Attach a compatible NP-F series battery to the battery plate on the rear of the unit. (Battery not included)
- **DC Power:** Connect the provided DC adapter to the 6~16V DC input port.
- **USB Type-C:** Use a 5-12V USB Type-C power source for convenient power.

Mighty Connection Type



Rich Power Supply

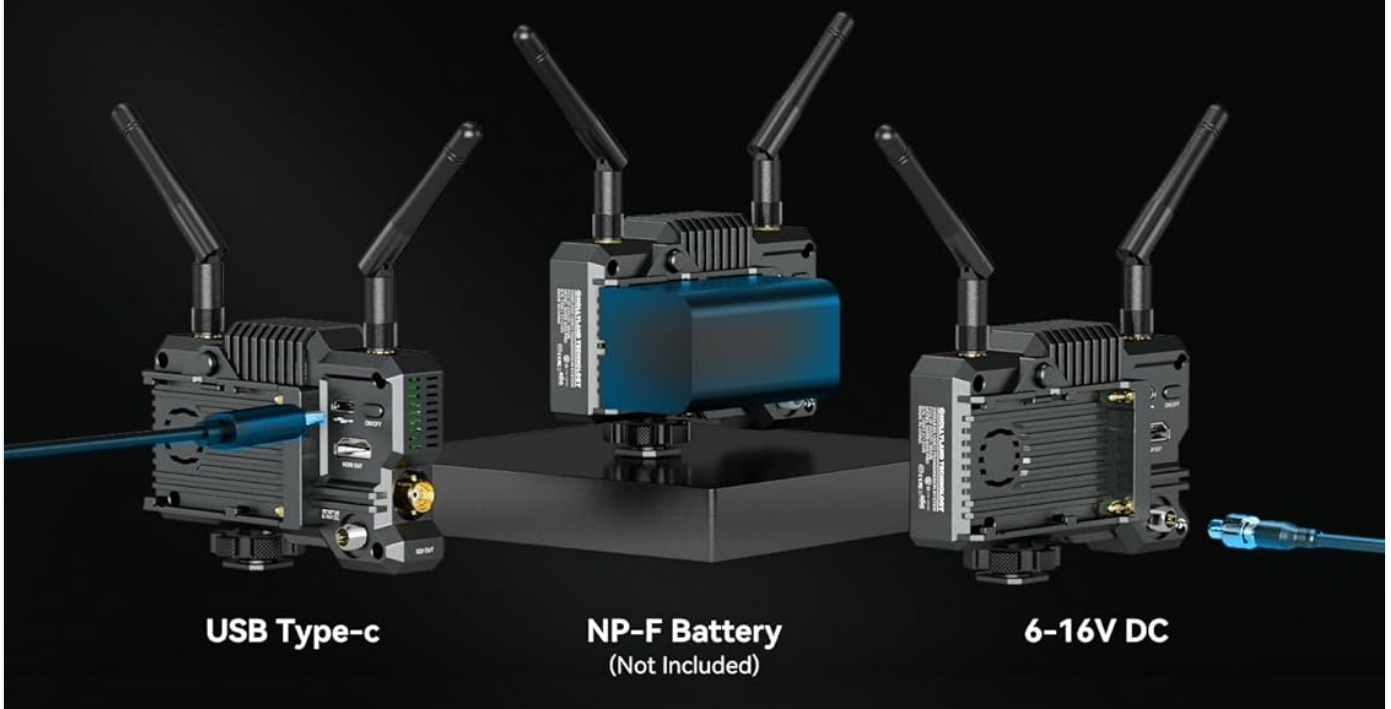


Figure 6: The various power input options for the Mars 400S PRO II, including USB Type-C, NP-F battery slot, and 6-16V DC input.

3.4 Connecting Video Sources

Connect your camera or video source to the transmitter's HDMI IN or SDI IN port. Connect your monitor or recording device to the receiver's HDMI OUT or SDI OUT port. Both output ports can be used simultaneously.

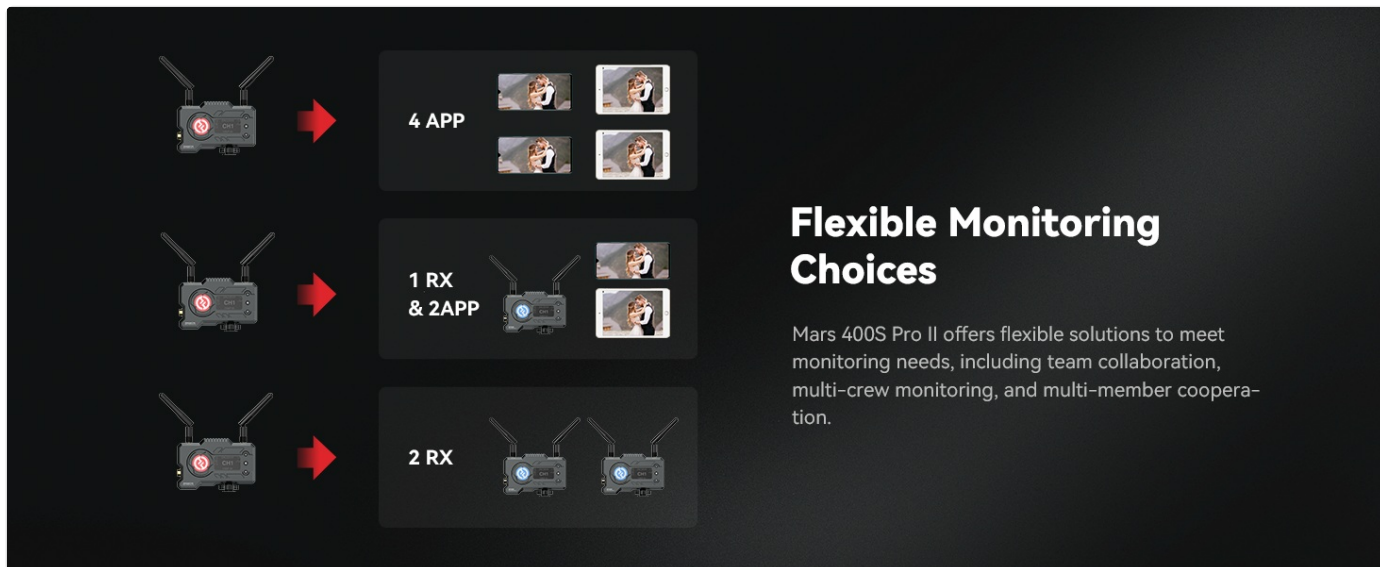


Figure 7: Close-up view of the HDMI and SDI input/output ports, detailing supported video formats for both input and output.

4. OPERATING INSTRUCTIONS

4.1 Initial Pairing and Channel Selection

Upon startup, the Mars 400S PRO II automatically scans and selects the best frequency channels to minimize interference. You can also manually select channels via the OLED display and control buttons, or using the Hollyview App.



Figure 8: A summary of key features, highlighting the 70ms latency, 450ft LOS range, and the auto channel scan function for optimal signal.

4.2 Monitoring with Hollyview App

Download the Hollyview App from your device's app store. Connect your mobile device to the system's Wi-Fi network. The app allows for comprehensive monitoring and control, including waveform, histogram, focus assist, and more.

All-Rounder HollyView App

Revolutionary Operating System



Figure 9: The HollyView App interface displayed on a smartphone, showing various monitoring tools such as waveform, histogram, overlay, zebra pattern, focus assist, and false color.

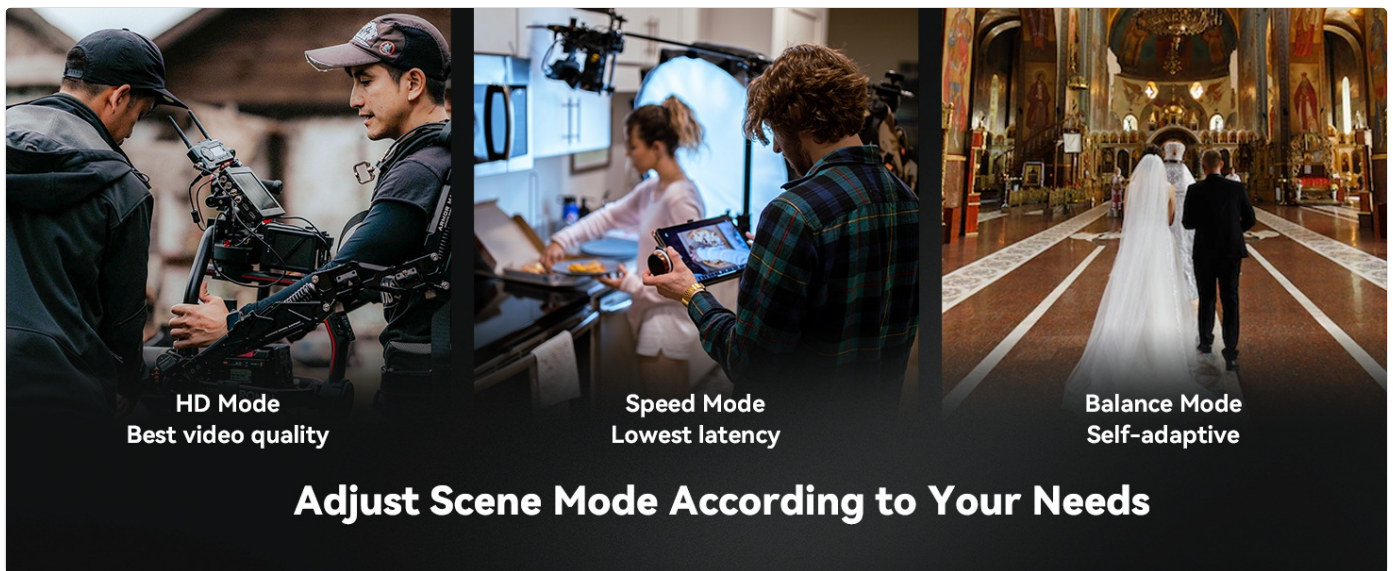


Figure 10: Diagram illustrating the flexible monitoring choices available with the Mars 400S PRO II, including up to 4 APP monitoring, 1 RX & 2 Apps, or 2 RXs for team collaboration.

4.3 Scene Modes

The system offers three scene modes to optimize performance based on your needs:

- **Speed Mode:** Prioritizes lowest latency for fast-paced shooting.
- **Balance Mode:** Provides a self-adaptive balance between latency and image quality.
- **HD Mode:** Delivers the best video quality with higher data rates (12Mbps).

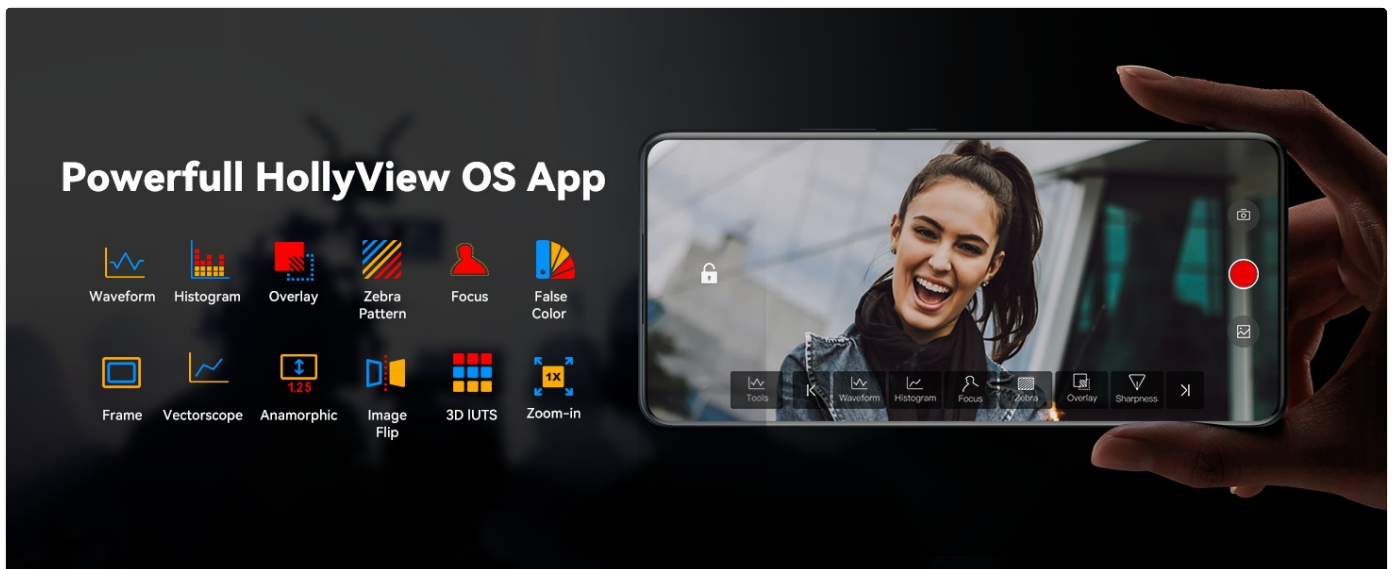


Figure 11: Visual explanation of the three scene modes: HD Mode for best video quality, Speed Mode for lowest latency, and Balance Mode for self-adaptive performance.



Figure 12: A side-by-side comparison demonstrating the improved image quality at 12Mbps data rate versus 8Mbps, highlighting the enhanced high-definition monitoring.

5. MAINTENANCE

5.1 Cleaning

Use a soft, dry cloth to clean the device. Avoid using harsh chemicals or abrasive materials that could damage the surface or internal components.

5.2 Fan Control

The intelligent cooling design allows for optimal temperature management. Adjust fan speed as needed via the device menu or Hollyview App to suit your operating environment.



Figure 13: Illustration of the flexible fan control options: Auto (adaptive performance), Low Noise Reduce, and Off (quiet mode), designed to manage device temperature effectively.

6. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No video signal	Incorrect cable connection; Power issue; Incorrect channel.	Check HDMI/SDI cables; Ensure devices are powered on; Perform channel scan.
Signal interference	Crowded frequency band; Obstructions.	Use Smart Channel Scan to find a clear channel; Reduce distance between TX/RX; Minimize obstructions.
App monitoring issues	Incorrect Wi-Fi connection; App version outdated.	Ensure mobile device is connected to the system's Wi-Fi; Update Hollyview App to the latest version.

7. SPECIFICATIONS

- **Product Dimensions:** 6.38 x 5.51 x 2.64 inches

- **Item Weight:** 1.34 pounds
- **Latency:** 0.07s (70ms)
- **Transmission Range:** 450ft (150m) Line-of-Sight
- **Video Interfaces:** SDI In/Out, HDMI In/Out
- **Video Format Support:** Up to 1080p
- **Data Rate:** Up to 12Mbps
- **Power Supply:** NP-F battery, 6~16V DC, 5-12V USB Type-C
- **Material:** Zinc Alloy Shell
- **Manufacturer:** Hollyland
- **Country of Origin:** China

8. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

This video provides a product display of the latest Hollyland Mars 400S Pro II, showcasing its design and features. It highlights the compact form factor and various ports.

9. WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Hollyland website or the included After-Sales Card. A comprehensive User Manual in PDF format is also available for download:

[Download User Manual \(PDF\)](#)