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› [HollyView](#) /

› [Hollyland Mars 300 PRO Enhanced Version Wireless Video Transmitter Receiver Set User Manual](#)

HollyView Mars 300 PRO

Hollyland Mars 300 PRO Enhanced Version Wireless Video Transmitter Receiver Set User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the Hollyland Mars 300 PRO Enhanced Version Wireless Video Transmitter Receiver Set. It covers product features, setup procedures, operational guidelines, maintenance tips, troubleshooting, and detailed specifications to ensure optimal performance and user experience.

What's in the Box

- Mars 300 PRO Transmitter (x1)
- Mars 300 PRO Receiver (x1)
- Antennas (x3)
- User Guide (x1)
- Expansion Accessory (x1)
- Cold Shoe (x1)
- USB Type-A to Type-C data cable (x1)

2. SAFETY INFORMATION

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not expose the device to rain or moisture.
- Do not disassemble or modify the device.
- Use only specified power adapters and batteries.
- Keep the device away from strong magnetic fields.
- Ensure proper ventilation to prevent overheating.

3. PRODUCT OVERVIEW

Key Features

- **300ft Transmission Range:** Provides reliable wireless video and audio transmission up to 300 feet with a clear line of sight.
- **0.08S Minimum Latency:** Achieves ultra-low latency for real-time monitoring.
- **HDMI Input and Loopout:** Transmitter supports HDMI input and loopout; Receiver features dual HDMI outputs.
- **Real-time App Monitoring:** Supports monitoring on up to three phones/tablets via the HollyView App, with professional monitor features like Waveform, Focus Peaking, Zebra, ZOOM, and 3D LUTs.
- **Thumbwheel Switch Menu:** A 3-in-1 thumbwheel switch menu with a side OLED screen provides easy access to power status, channel scan results, video input, and channel number.
- **Channel Scan:** Available on both the receiver and the App to identify the best channel for use.
- **Fan Speed Control:** Adjustable fan speed for noise control, offering regular and quiet modes.
- **Multiple Power Options:** Supports 5-12V wide voltage power supply, including L-series batteries, power banks, and Type-C (5V/2A) charging.
- **Built-in Antennas:** Receiver features built-in antennas for efficient setup. Transmitter uses external antennas.

Components





Figure 3.1: Hollyland Mars 300 PRO Transmitter and Receiver units with antennas. The transmitter (right) and receiver (left) are black, rectangular devices with external antennas. The transmitter has 'TRANSMITTER MARS 300 PRO' printed on it, and both units feature the Hollyland logo.

MARS 300 PRO

DUAL HDMI 300FT WIRELESS VIDEO TRANSMISSION SYSTEM

C O M E B A C K & R E B O R N



300FT
TRANSMISSION RANGE



0.08S
MINIMUM LATENCY



REAL-TIME
APP MONITORING



X2
HDMI IN &
LOOPOUT



THUMBWHEEL
SWITCH MENU



OLED
SIDE OLED



Figure 3.2: An overview graphic highlighting key features of the Mars 300 PRO, including 300ft transmission range, 0.08s minimum latency, real-time app monitoring, HDMI in & loopout, thumbwheel switch menu, and side OLED display.

SIDE OLED

Side OLED Provides Easy Access to Power Status, Channel Scan, and Other OLED Display Information for Both Vertical or Horizontal Installation Methods



Figure 3.3: Close-up view of the side OLED screen on the Mars 300 PRO unit, displaying information such as signal strength, battery voltage, channel number, and video resolution (e.g., 1080P60). This screen is accessible for both vertical and horizontal installations.

4. SETUP

4.1 Connecting Antennas

For the transmitter, screw the three external antennas firmly into their respective ports. The receiver features built-in antennas and does not require external antenna attachment.

4.2 Powering the Devices

The Mars 300 PRO supports multiple power options:

- **L-series Batteries:** Attach a compatible NP-F 550/750/970 battery to the battery plate on the transmitter and receiver.
- **Type-C Input:** Connect a 5-12V Type-C power source (e.g., power bank, wall adapter) to the Type-C port. Ensure the power source provides sufficient current (5V/2A recommended).

MULTIPLE POWER OPTIONS

Supports 5-12V Wide Voltage Power Supply, Including Various L-Series Batteries, Different Power Banks, and Type-C(5V/2A) Charging



Figure 4.1: Illustration of the various power options for the Mars 300 PRO, including L-series batteries, power banks, and Type-C (5V/2A) charging. The image shows the transmitter and receiver connected to different power sources.

4.3 HDMI Connections

Connect your video source (e.g., camera) to the HDMI IN port on the transmitter. If you require local monitoring, connect a display to the HDMI LOOP OUT port on the transmitter. On the receiver, connect your monitoring display(s) to the HDMI OUT 1 or HDMI OUT 2 ports.

HDMI IN & LOOPOUT

HDMI Input and Loopout on TX, and Dual HDMI Outputs on RX



Figure 4.2: Diagram showing the HDMI input and loopout ports on the transmitter, and dual HDMI output ports on the receiver. The ports are clearly labeled 'HDMI IN', 'HDMI LOOP OUT' on the transmitter, and 'HDMI OUT 1', 'HDMI OUT 2' on the receiver.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Press and hold the power button on both the transmitter and receiver until the OLED screen illuminates. To power off, press and hold the power button again until the screen turns off.

5.2 Thumbwheel Switch Menu Navigation

The 3-in-1 thumbwheel switch allows for easy navigation through the device's menu. Rotate the thumbwheel to scroll through options and press it to select. The side OLED screen displays menu options and device status.

THUMBWHEEL SWITCH MENU

Better Using Experience with the Multi-Functional Clickable Thumbwheel Switch



Figure 5.1: A hand interacting with the thumbwheel switch menu on the Mars 300 PRO. The thumbwheel is used to navigate and select options displayed on the side OLED screen, enhancing user experience.

5.3 Channel Scan and Selection

To ensure optimal signal quality, perform a channel scan. This can be done directly on the receiver via the OLED menu or through the HollyView App. Select a channel with minimal interference for stable transmission.

FIRMWARE UPDATE & CHANNEL SCAN ON APP

Easy and Quick Firmware Update & Channel Scan on the HollyView APP

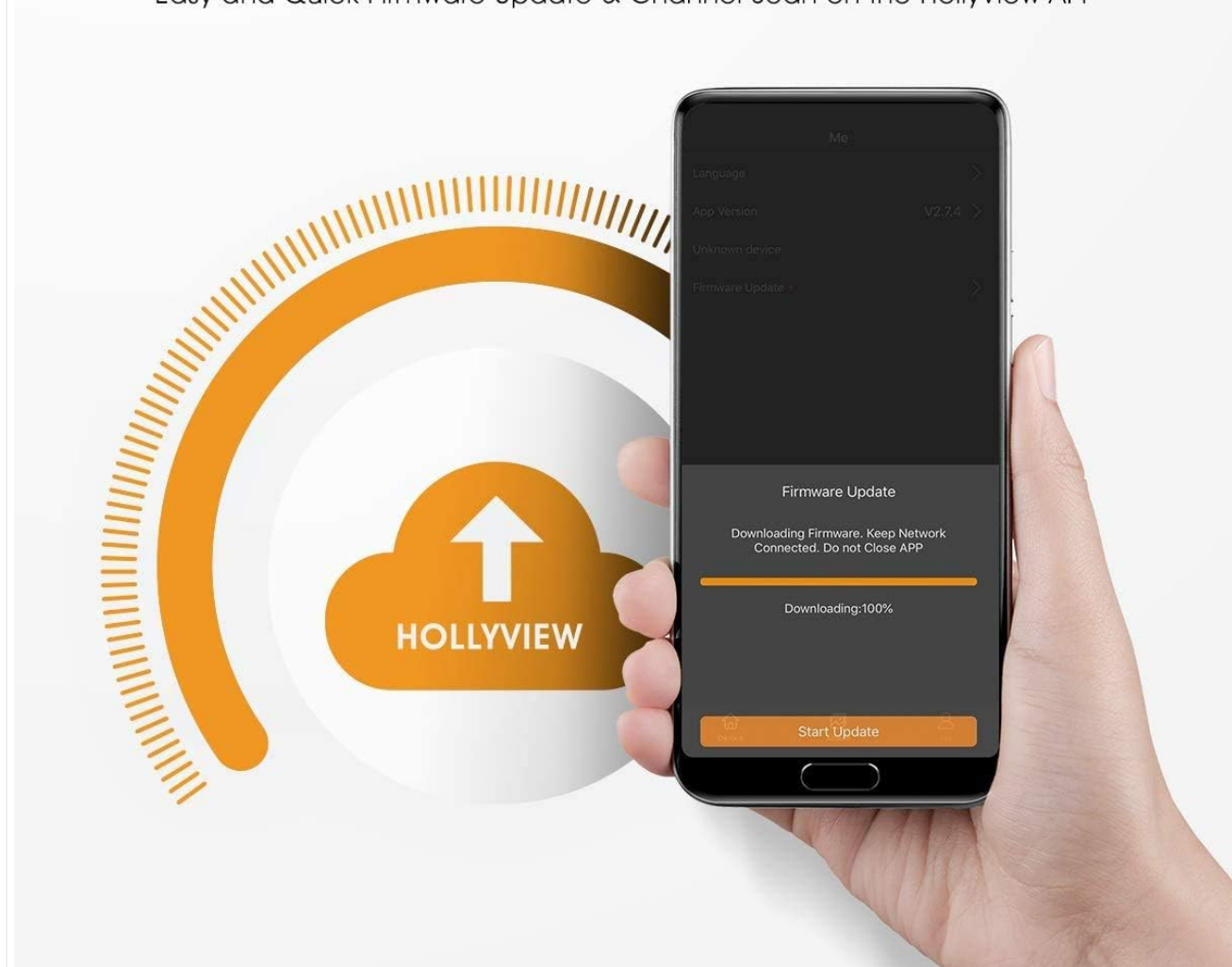


Figure 5.2: Screenshot of the HollyView App interface showing options for firmware update and channel scan. The app allows users to easily manage and update their Mars 300 PRO system.

5.4 App Monitoring (HollyView App)

Download the HollyView App from your device's app store. Connect your smartphone or tablet to the Mars 300 PRO's Wi-Fi network. The app allows for real-time monitoring and access to professional features such as Waveform, Focus Peaking, Zebra, ZOOM, and 3D LUTs.

REAL-TIME APP MONITORING

Supports up to 3 Phones / Tablets
Real-Time Monitoring with Pro
Monitor Features, such as Waveform,
Focus Peaking, Zebra, ZOOM, 3D Luts, etc



Figure 5.3: A smartphone displaying real-time video monitoring through the HollyView App, alongside a tablet. The app provides advanced monitoring features for professional use.

5.5 Fan Speed Control

Access the fan speed settings through the thumbwheel menu or the HollyView App. You can select between 'Regular' speed for standard operation or 'Low' speed for quiet mode, which is useful in sound-sensitive environments.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Hollyland Mars 300 PRO, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the devices. Do not use liquid cleaners or solvents.
- **Storage:** Store the devices in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** If using L-series batteries, follow the manufacturer's guidelines for charging and storage. Remove batteries if the device will not be used for an extended period.

- **Firmware Updates:** Regularly check for and install firmware updates via the HollyView App to benefit from performance improvements and new features.

7. TROUBLESHOOTING

If you encounter issues with your Mars 300 PRO, refer to the following common troubleshooting steps:

- **No Signal/Poor Signal:**
 - Ensure antennas are securely attached to the transmitter.
 - Verify line of sight between transmitter and receiver. Obstructions can degrade signal.
 - Perform a channel scan and select a less congested channel.
 - Check the distance between the transmitter and receiver; ensure it's within the 300ft range.
- **No Video Output:**
 - Confirm HDMI cables are correctly connected and functional.
 - Ensure the video source is outputting a compatible signal (e.g., 1080P).
 - Check the input status on the OLED screen.
- **Device Not Powering On:**
 - Verify battery charge level or power adapter connection.
 - Ensure the power source provides adequate voltage (5-12V) and current (5V/2A for Type-C).
- **App Monitoring Issues:**
 - Ensure your mobile device is connected to the Mars 300 PRO's Wi-Fi network.
 - Restart the HollyView App and the Mars 300 PRO units.
 - Check for app updates.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	7.9 x 4.7 x 6.2 inches
Item Weight	1.43 pounds
Model Number	Mars 300 PRO
Brand	HollyView
Connectivity Technology	HDMI, USB
Special Feature	Built In Microphone (Note: This feature is listed in product specifications, but the primary function is video transmission. Audio is typically embedded in HDMI.)
Compatible Devices	Smartphone, Speaker (for monitoring)
Total HDMI Ports	3 (1 In, 1 Loopout on TX; 2 Out on RX)
Connector Type	HDMI, USB
Audio Output Mode	Stereo or Mono

Feature	Detail
Surround Sound Channel Configuration	2.0
Video Encoding	H.264
Color	Black
Manufacturer	Hollyland
First Available Date	October 27, 2020

9. WARRANTY AND SUPPORT

The Hollyland Mars 300 PRO Enhanced Version comes with a **1-year guarantee** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.

For technical support, warranty service, or further inquiries, please contact HollyView customer service. Refer to the official HollyView website for the most up-to-date contact information and support resources.