

JM300PRO

Generic JM300PRO Wireless Video Transmitter and Receiver User Manual

Model: JM300PRO

1. INTRODUCTION

The Generic JM300PRO is a wireless video transmission system designed for professional videographers, photographers, and filmmakers. It consists of a transmitter (TX) and a receiver (RX) unit, enabling high-definition video and audio signal extension up to 200 meters (656 feet) with a low latency of approximately 0.06 seconds. This system supports 1080P60Hz resolution and offers multiple power supply options, app monitoring, and multi-receiver capabilities.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- JM300PRO Transmitter Unit (TX)
- JM300PRO Receiver Unit (RX)
- Antennas (typically 2 per unit)
- Power Adapter (if included)
- User Manual (this document)

Note: Batteries (e.g., NP-F series) are not included and must be purchased separately.

3. DEVICE OVERVIEW

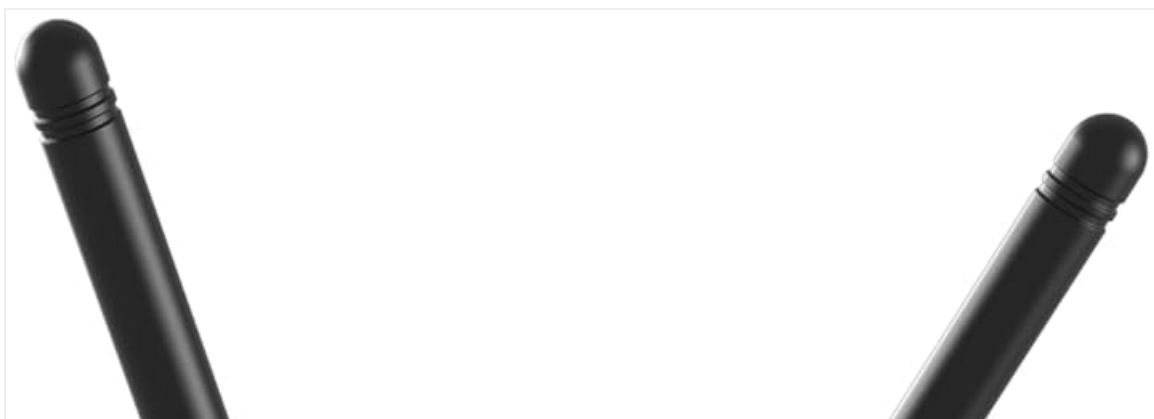




Figure 3.1: JM300PRO Transmitter Unit (TX). This unit sends the video signal from your source device.



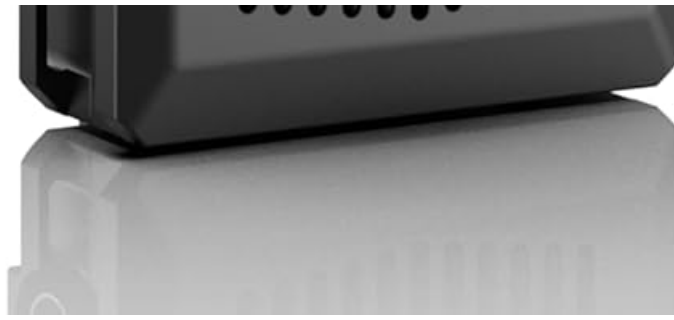


Figure 3.2: JM300PRO Receiver Unit (RX). This unit receives the video signal and outputs it to a display.



Figure 3.3: Key features of the JM300PRO unit, including the OLED screen for status display, side buttons for navigation, and the HDMI loopout port.

3.1 Ports and Indicators

- **HDMI IN (TX Unit):** Connects to your video source (e.g., camera, camcorder).
- **HDMI OUT (TX Unit):** Provides a loopout for local monitoring on the transmitter.
- **HDMI OUT 1 & 2 (RX Unit):** Connects to display devices (e.g., monitors, TVs).
- **DC 9-16V:** Power input port.

- **USB-C:** Alternative power input port.
- **Power Button:** Turns the unit on/off.
- **OLED Screen:** Displays status information such as resolution, signal strength, and battery level.
- **Control Buttons:** Used for menu navigation and channel selection.





Figure 3.4: Side view of the JM300PRO unit, highlighting the DC 9-16V power input, USB-C port, and power button.

4. SETUP INSTRUCTIONS

4.1 Antenna Installation

1. Carefully screw the provided antennas onto the antenna connectors on both the Transmitter (TX) and Receiver (RX) units.
2. Ensure the antennas are securely tightened but do not overtighten.
3. Adjust the antennas to an upright position for optimal signal transmission.

4.2 Powering the Units

The JM300PRO supports three power supply methods:

- **DC 9-16V Power Adapter:** Connect the included power adapter to the DC 9-16V port on the unit and plug it into a power outlet.
- **NP-F Series Batteries:** Attach a compatible NP-F series battery to the battery plate on the rear of the unit. (Batteries sold separately).
- **USB-C Power:** Connect a USB-C power source to the USB-C port.



Figure 4.1: The JM300PRO offers flexible power options including NP-F batteries, DC input, and USB-C.

4.3 Connecting Devices

1. **Transmitter (TX) Unit:** Connect your video source (e.g., camera, camcorder, DVD player, set-top box) to the **HDMI IN** port on the TX unit using an HDMI cable. If local monitoring is desired, connect an external monitor to the **HDMI OUT**

(loopout) port on the TX unit.

2. **Receiver (RX) Unit:** Connect your display device(s) (e.g., HDTV, projector, monitor) to the **HDMI OUT 1** or **HDMI OUT 2** ports on the RX unit using HDMI cables. The RX unit supports connecting up to two HD monitors simultaneously.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press and hold the Power button on each unit until the OLED screen illuminates (for power on) or turns off (for power off).

5.2 Initial Connection

Once both the TX and RX units are powered on and connected to their respective devices, they should automatically establish a connection. The OLED screen on both units will display the current resolution (e.g., 1920x1080P60) and signal status.

5.3 Channel Scan and Selection

The JM300PRO features a channel scan function to identify the best available wireless channel for optimal performance. This can be done via the unit's control buttons or through the dedicated mobile application.

1. **On-Device:** Use the control buttons next to the OLED screen to navigate the menu and initiate a channel scan. Select a channel with minimal interference.
2. **Via App:** Download and install the JM300PRO monitoring application on your smartphone or tablet. Connect your mobile device to the JM300PRO's Wi-Fi network. Within the app, you can perform a channel scan and select the most suitable frequency point. The system offers nine optional frequency points.



Figure 5.1: The JM300PRO allows selection from nine frequency points to optimize wireless performance.

5.4 APP Monitoring

The mobile application allows for real-time monitoring of the video feed and system status. It also provides control over various settings and enables system upgrades.

1. Ensure your smartphone or tablet is connected to the JM300PRO's Wi-Fi network.
2. Open the JM300PRO application.
3. The app will display the video feed and system information.



Figure 5.2: The mobile application provides a comprehensive interface for monitoring and controlling the JM300PRO system.

5.5 Multi-Receiver Operation

One JM300PRO Transmitter unit can broadcast to multiple Receiver units (up to 4). To use this feature, simply power on and connect additional RX units as described in Section 4.3. All connected RX units will receive the same video signal from the TX unit.

6. MAINTENANCE

6.1 Cleaning

Wipe the units with a soft, dry cloth. Do not use liquid cleaners or solvents, as they may damage the device.

6.2 Firmware Updates

System upgrades can be performed through the mobile application. Ensure the unit has sufficient power and a stable connection during the upgrade process. Follow the instructions provided within the app for a successful update.

6.3 Battery Care

If using NP-F series batteries, ensure they are charged according to the battery manufacturer's instructions. Remove batteries from the unit if it will not be used for an extended period.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No video signal on receiver.	<ul style="list-style-type: none"> Units not powered on. HDMI cables loose or faulty. Incorrect HDMI input selected on display. Signal interference. 	<ul style="list-style-type: none"> Ensure both TX and RX units are powered on. Check all HDMI cable connections. Verify correct HDMI input on your display. Perform a channel scan to find a clearer frequency.

Problem	Possible Cause	Solution
Poor video quality or dropped frames.	<ul style="list-style-type: none"> Excessive distance between TX and RX. Obstructions (walls, metal structures). High wireless interference. Low battery on units. 	<ul style="list-style-type: none"> Reduce distance between TX and RX units. Ensure clear line-of-sight. Perform a channel scan to select a less congested channel. Charge or replace batteries.
App monitoring not working.	<ul style="list-style-type: none"> Mobile device not connected to JM300PRO Wi-Fi. App not updated. 	<ul style="list-style-type: none"> Connect your mobile device to the JM300PRO's Wi-Fi network. Ensure the app is the latest version.

8. SPECIFICATIONS

Feature	Specification
Model Number	JM300PRO
Brand	Generic
Connectivity Technology	HDMI, Wi-Fi
Controller Type	Push Button, App
Max Resolution	1080P60Hz
Latency	Approximately 0.06s
Transmission Range	200m / 656ft (barrier-free)
Compatible Devices	Personal Computer, Smartphone, Speaker, Tablet, Television, DVD, DVR, IPTV, CCTV Blu-ray players, set-top boxes, cable/satellite boxes, game consoles
Total HDMI Ports	2 (1 IN, 1 OUT on TX; 2 OUT on RX)
Audio Output Mode	Stereo
Surround Sound Channel Configuration	5.1, 7.1
Video Encoding	H.264, H.265/HEVC
Output Power	5 Watts
Power Input	DC 9-16V, USB-C, NP-F series batteries
Number of Channels	6 (Wireless)

Feature	Specification
Color	Black
Manufacturer	Shenzhen liangtu technology co., ltd.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your proof of purchase for any warranty claims.