Lemorele R200

Lemorele Wireless Video Transmission System R200 User Manual

Model: R200

1. Introduction

The Lemorele Wireless Video Transmission System R200 is a professional-grade solution designed for seamless video transmission in various settings, including photography, live events, and educational environments. This system provides high-definition 1080P video transmission with minimal latency, ensuring real-time monitoring and efficient workflow. Its robust design, extended range, and versatile power options make it an indispensable tool for content creators.

2. What's in the Box

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

- 1 x HDMI Transmitter (TX Unit)
- 1 x HDMI Receiver (RX Unit)
- 4 x Antennas
- 2 x 4400mAh Batteries
- 2 x Power Adapters
- 2 x HDMI Cables (50cm)
- 2 x USB-C Cables
- 1 x Cold Shoe Mount
- 1 x Micro-HDMI Adapter
- 1 x Mini-HDMI Adapter
- 1 x User Manual

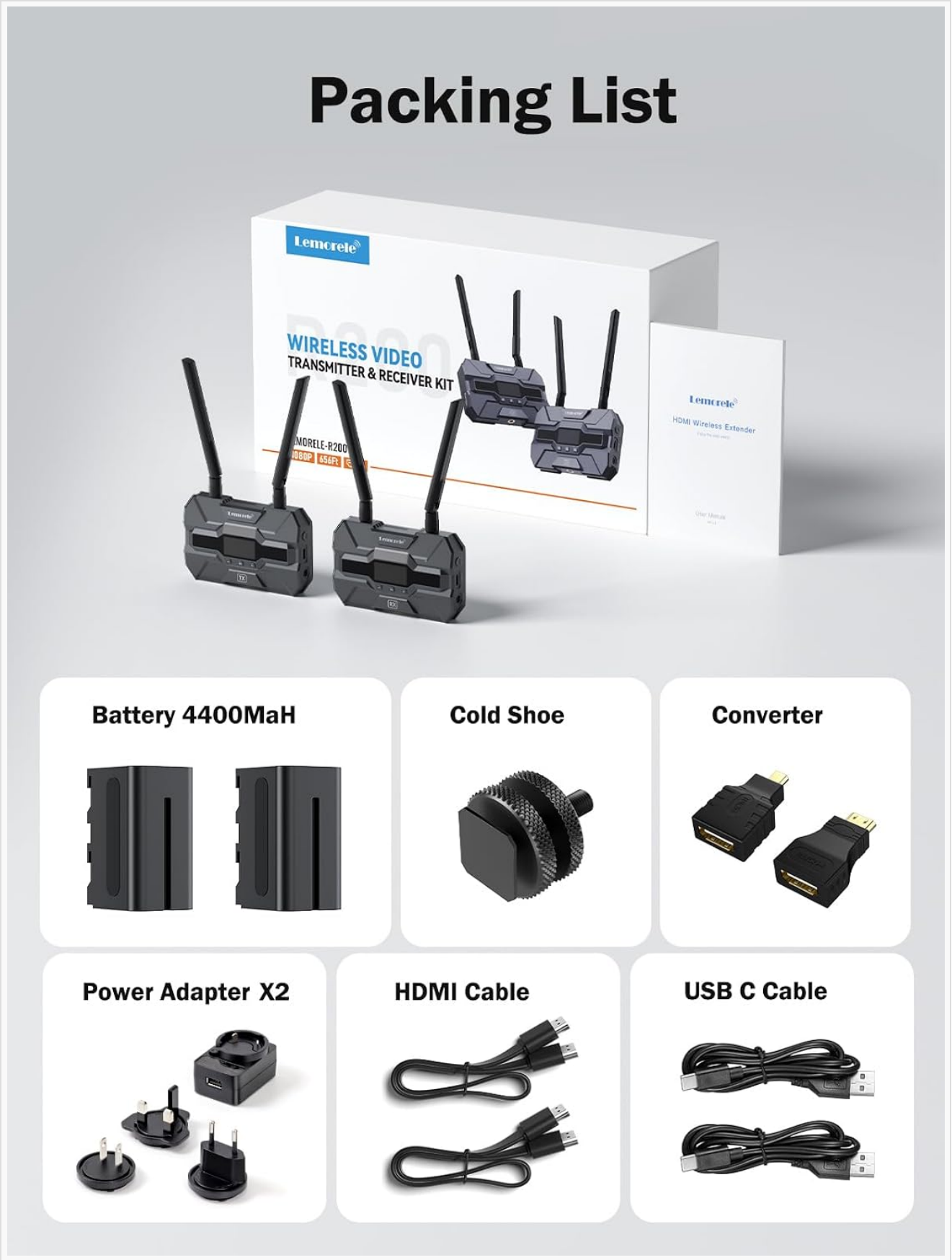


Figure 2.1: Contents of the R200 package.

3. Product Overview

The Lemorele R200 system consists of a transmitter (TX) and a receiver (RX) unit, both designed for robust performance and ease of use.

3.1 Key Features

- **High-Capacity Batteries:** Equipped with two 4400mAh batteries, providing approximately 4.5 to 5 hours of continuous operation.
- **OLED Display:** Real-time display of connection status, battery level, current channel, and image quality.
- **Dual-Band Wireless:** Utilizes 2.4GHz and 5.8GHz frequencies with a dual antenna design for stable, interference-free transmission.
- **Extended Range:** Supports wireless transmission up to 656 feet (200 meters).
- **1080P Full HD:** Delivers clear and smooth 1080P video quality.
- **HDMI Local Loop-Out:** Transmitter includes an HDMI loop-out for local monitoring.
- **Flexible Power Options:** Can be powered by NP-F970/750/550 batteries, 5V/2A Type-C charger, or 12V DC input.
- **Ultra-Low Latency:** Achieves a latency of only 0.06 seconds for near real-time image synchronization.
- **Multi-Receiver Support:** One transmitter can connect to up to four receivers simultaneously.
- **Built-in Cooling Fan:** Ensures stable operation by effectively dissipating heat.

3.2 Components and Interfaces



Figure 3.1: Lemorele R200 Transmitter and Receiver units.



Figure 3.2: Detailed view of TX and RX unit interfaces.



Figure 3.3: Available power supply methods for the R200 system.



Figure 3.4: Internal cooling system for optimal performance.

4. Setup Instructions

4.1 Charging and Installing Batteries

1. Ensure the provided 4400mAh batteries are fully charged using the included power adapters. The OLED

screen on the units will indicate battery status.

2. Align the charged battery with the battery slot on the back of both the TX and RX units and slide it into place until it clicks securely.

4.2 Attaching Antennas

1. Carefully screw the four antennas onto the corresponding antenna ports on both the TX and RX units. Ensure they are finger-tight but do not overtighten.

4.3 Connecting the Transmitter (TX) Unit

1. Connect your video source (e.g., camera, laptop, game console) to the **HDMI IN** port of the TX unit using one of the provided HDMI cables. Use the Micro-HDMI or Mini-HDMI adapters if necessary.
2. If local monitoring is desired, connect a monitor to the **HDMI OUT** (loop-out) port of the TX unit.
3. Attach the TX unit to your camera or rig using the cold shoe mount for secure placement.

4.4 Connecting the Receiver (RX) Unit

1. Connect the **HDMI OUT** port of the RX unit to your display device (e.g., monitor, projector, TV) using the other provided HDMI cable.

5. Operating Instructions

5.1 Powering On/Off

1. Press and hold the **OFF/ON** button on both the TX and RX units for a few seconds until the OLED screen illuminates.
2. To power off, press and hold the **OFF/ON** button again until the screen turns off.

5.2 Establishing Connection

Once both units are powered on, they will automatically attempt to pair. The OLED screen will display the connection status. A stable connection is indicated by a specific icon or message on the screen.



Figure 5.1: OLED screen interface showing connection and settings.

5.3 Multi-Receiver Setup (1 TX to 4 RX)

The system supports connecting one transmitter to up to four receivers. To add additional receivers:

1. Ensure the primary TX unit is powered on and transmitting.
2. Power on the additional RX units. They will automatically search for and connect to the active TX unit.
3. Note that increasing the number of receivers may slightly reduce the maximum transmission distance.

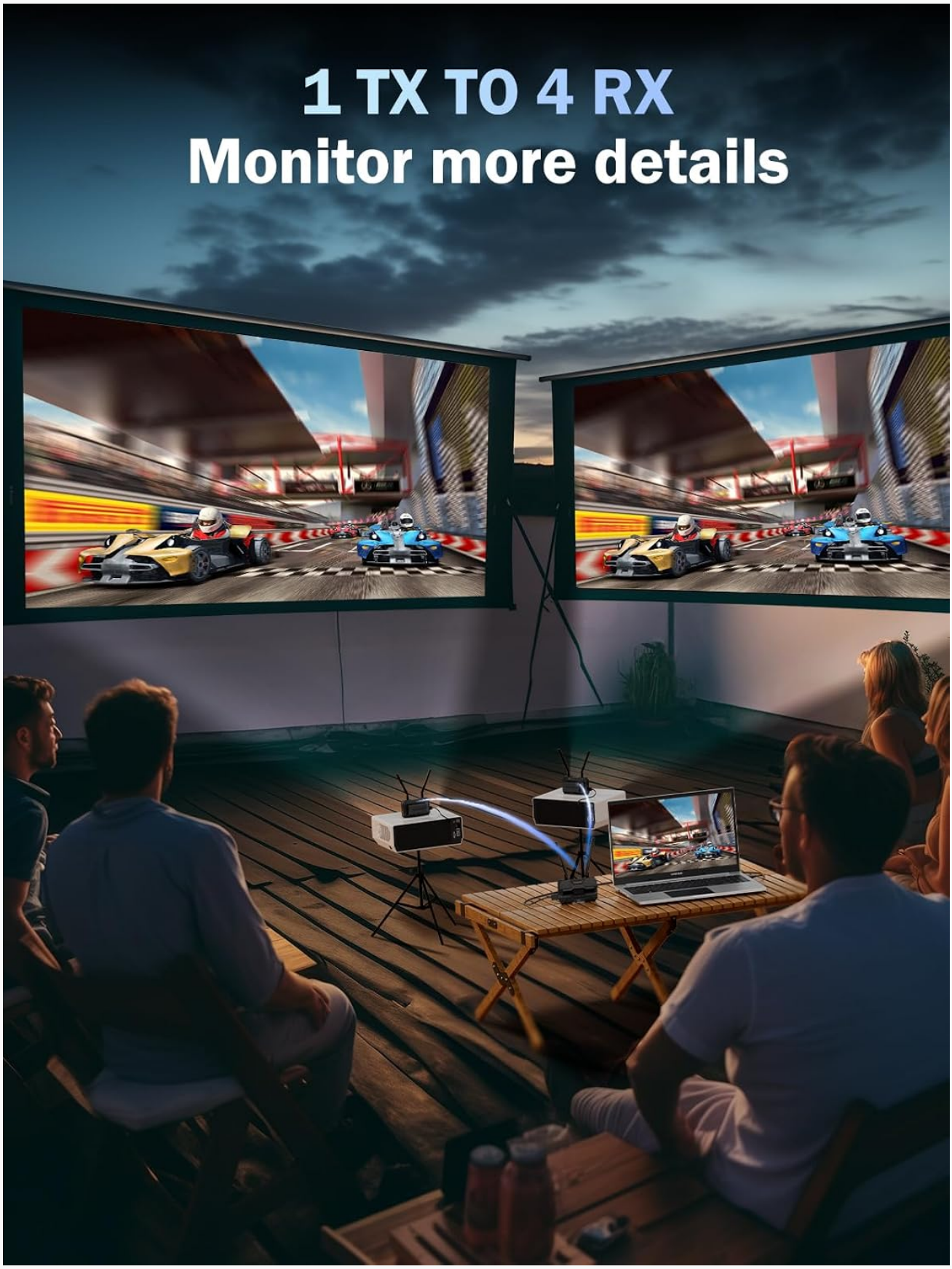


Figure 5.2: Example of 1 TX to 4 RX setup for multi-screen monitoring.

5.4 Optimizing Transmission Range

For optimal transmission range and stability (up to 656ft / 200m), ensure a clear line of sight between the TX and RX units. Obstructions like walls or large objects can reduce signal strength and range.



Figure 5.3: Visual representation of the R200's transmission range.

5.5 Official Product Video

Video 5.1: An official overview of the Lemorele Wireless HDMI Video Transmitter and Receiver R200, demonstrating its features and capabilities.

6. Maintenance

To ensure the longevity and optimal performance of your Lemorele Wireless Video Transmission System, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Avoid using liquid cleaners or solvents.
- **Battery Care:** Store batteries in a cool, dry place when not in use. Do not expose them to extreme temperatures. Fully charge batteries before long-term storage and recharge every 3-6 months to maintain their health.
- **Antennas:** Handle antennas carefully to prevent bending or damage. Ensure they are securely attached during operation.
- **Storage:** When not in use, store the system in its original packaging or a protective case to prevent dust and physical damage.

7. Troubleshooting

If you encounter issues with your Lemorele Wireless Video Transmission System, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No signal on receiver display	TX/RX not paired; HDMI cable issue; out of range; interference.	Ensure both units are powered on and within range. Check HDMI cable connections. Re-pair units if necessary (refer to OLED screen for pairing status). Minimize obstructions.
OLED screen not lighting up	Battery low/dead; power button not pressed correctly; unit defect.	Charge or replace batteries. Press and hold the power button firmly. If issue persists, contact customer support.
Video quality is poor or flickering	Weak signal; interference; incorrect resolution setting.	Reduce distance between TX and RX. Avoid strong Wi-Fi or other wireless signals. Ensure source resolution is 1080P or lower. Check antenna connections.
System overheats	Poor ventilation; prolonged use in hot environment.	Ensure the built-in fan is not obstructed. Operate in a well-ventilated area. Allow unit to cool down if necessary.

8. Specifications

Feature	Detail
Model Number	R200
Connectivity Technology	HDMI, Wireless Wi-Fi (2.4GHz/5.8GHz)
Video Output Resolution	1920x1080 (1080p)
Transmission Range	Up to 656 feet (200 meters)
Latency	0.06 seconds

Feature	Detail
Batteries	2 Lithium Ion batteries (4400mAh, included)
Item Weight	2.64 pounds
Package Dimensions	9.45 x 5.43 x 2.95 inches
Manufacturer	Lemorele
Color	Black

9. Warranty and Support

Lemorele products are designed and manufactured to the highest quality standards. For warranty information and technical support, please refer to the warranty card included in your product packaging or visit the official Lemorele website. You can also contact Lemorele customer service directly for assistance with product inquiries, troubleshooting, and service requests.
For more information, visit the Lemorele Store on Amazon.

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