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Lemorele R1100

Lemorele Wireless HDMI Transmitter and Receiver

Model: R1100 User Manual

1. INTRODUCTION

The Lemorele R1100 Wireless HDMI Transmission System provides a reliable solution for streaming high-definition audio and video wirelessly. This system supports 1080P Full HD transmission over distances up to 200 meters (656 feet) with low latency, making it suitable for various applications from home entertainment to professional presentations. It features a plug-and-play design for easy setup and supports connecting multiple receivers for expanded monitoring capabilities.

2. PACKAGE CONTENTS

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

- 1 x Wireless HDMI Transmitter (TX)
- 1 x Wireless HDMI Receiver (RX)
- 4 x External 5DB High Gain Wi-Fi Antennas
- 1 x User Manual
- 1 x Cold Shoe Mount
- 2 x USB-C Cables

PACKING LIST



Figure 2.1: Contents of the Lemorele R1100 package.

3. PRODUCT OVERVIEW

The Lemorele R1100 system consists of a Transmitter (TX) and a Receiver (RX) unit, designed for robust wireless video and audio transmission. Both units are compact and feature multiple power options and connectivity ports.

3.1 Key Features

- **5.8G Wireless Transmission:** Utilizes 5GHz Wi-Fi for stable and interference-resistant connections.
- **Extended Range:** Up to 656 feet (200 meters) transmission distance with low latency (less than 50ms).
- **1080P Full HD:** Supports 1080P@60Hz refresh rate for clear video output.
- **HDMI Loop-Out:** The transmitter includes an HDMI output for local monitoring.
- **Multi-Receiver Support:** One transmitter can connect to up to four receivers (additional receivers sold separately).
- **App Monitoring:** Monitor video feeds on Android and iOS devices using the TuTuPlay app.
- **Dual Power Supply:** Can be powered via USB-C (5V2A) or NP-F type batteries.

Multi-Scenario Applications

The transmitter can transmit signals to a max of 4 receivers



Figure 3.1: Overview of the Lemorele R1100's versatile wireless connections and features.

3.2 Components and Ports

Familiarize yourself with the ports and controls on both the Transmitter (TX) and Receiver (RX) units:

Versatile Wireless Connections



Figure 3.2: Detailed view of the Transmitter and Receiver units, showing power and HDMI ports.

- **Transmitter (TX):** Features HDMI Input (for source device), HDMI Output (for local monitoring), USB-C Power port, LCD Display, Power Button, and Pairing Button.
- **Receiver (RX):** Features HDMI Output (for display device), USB-C Power port, Power Button, Pairing Button, and a battery compartment for NP-F type batteries.
- **Antennas:** Both TX and RX units utilize external 5DB high gain Wi-Fi antennas for enhanced signal strength.

4. SETUP INSTRUCTIONS

4.1 Power Supply (Important)

To ensure optimal performance and stable operation of the Wi-Fi module, it is crucial to use a **5V2A power supply** for both the Transmitter and Receiver units. Insufficient power can lead to various issues, including:

- Unsuccessful screen casting
- Connection lags or instability
- Sudden disconnections
- Display interface not showing SSD and password

The units can be powered via the provided USB-C cables connected to a 5V2A power adapter (not included) or by compatible NP-F type batteries (for the Receiver).

4.2 Initial Connection (Plug and Play)

The Lemorele R1100 system is designed for plug-and-play operation, requiring no complex wiring or software configuration for a single TX-RX setup.

1. **Connect Transmitter (TX):** Plug the Transmitter into the HDMI output port of your source device (e.g., camera, PC, TV-Box).
2. **Connect Receiver (RX):** Connect the Receiver to the HDMI input port of your display device (e.g., TV, projector, monitor).
3. **Apply Power:** Connect the 5V2A USB-C power supply to both the TX and RX units.
4. **Wait for Connection:** The system will automatically establish a connection within 5-10 seconds, and your source content will be displayed on the monitor.

656 ft Transmission Range 0.05s Low Latency



Figure 4.1: Transmitter (TX) with HDMI loop-out connected to a camera and local monitor.

4.3 Pairing Additional Receivers

If you have purchased additional receivers separately, they will need to be manually paired with the transmitter. Refer to the specific instructions provided with your additional receiver units for the pairing process.

5. OPERATING INSTRUCTIONS

5.1 Wireless Transmission Performance

The R1100 system provides robust wireless transmission with the following characteristics:

- **Transmission Distance:** Up to 200 meters (656 feet) for a single transmitter-receiver pair in an open environment.
- **Low Latency:** Less than 50ms delay, ensuring near real-time video and audio synchronization.
- **HD Resolution:** Supports 1080P@60Hz refresh rate, delivering clear and smooth visuals.

Transmitter with HDMI Loop Out Support

Facilitates user monitoring of transmission content and allows for timely adjustments as needed



Figure 5.1: Wireless transmission range and latency capabilities.

5.2 Multi-Receiver Support

The R1100 system allows one transmitter to broadcast to multiple receivers simultaneously, expanding your monitoring options. The transmission distance varies with the number of connected receivers:

- **1 Transmitter + 1 Receiver:** Up to 200 meters (656 feet)

- **1 Transmitter + 2 Receivers:** Up to 130 meters
- **1 Transmitter + 3 or 4 Receivers:** Up to 100 meters

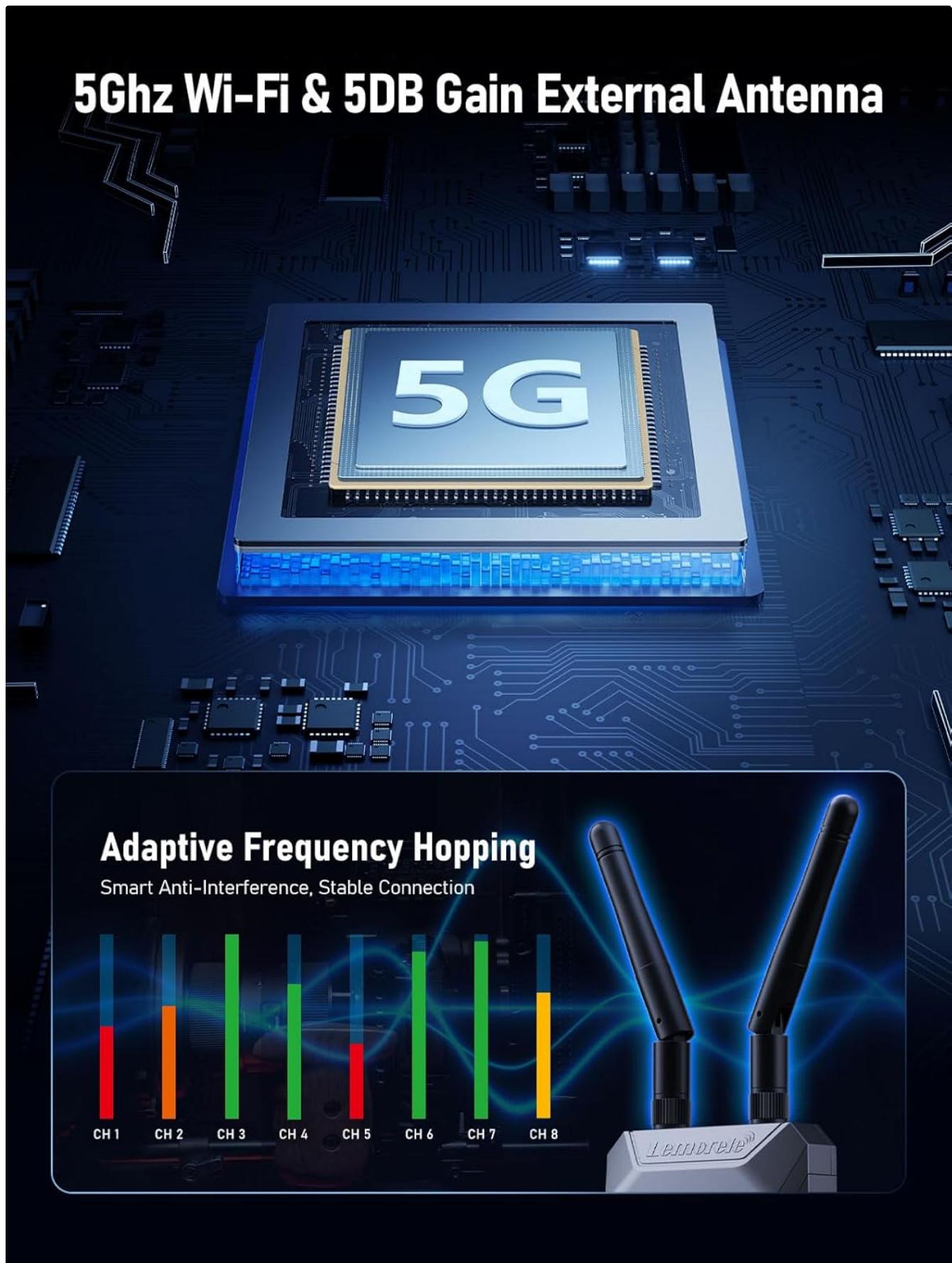


Figure 5.2: Multi-scenario applications with one transmitter and multiple receivers.

2 Power Supply Methods



Figure 5.3: Monitoring capabilities with up to four receivers.

5.3 App Monitoring (TuTuPlay)

For additional monitoring flexibility, the Lemorele R1100 system supports the TuTuPlay app, available for Android and iOS devices. This app allows you to monitor the video feed directly on your smartphone or tablet.

5.4 Adaptive Frequency Hopping

The system incorporates Wi-Fi adaptive frequency hopping technology, utilizing a Realtek high-performance module. This feature ensures a stable connection and minimizes interference, even in environments with numerous wireless signals or large conference settings.

Figure 5.4: Adaptive frequency hopping for stable 5GHz Wi-Fi connection.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Lemorele R1100 system, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the units. Avoid using liquid cleaners or solvents.
- **Storage:** Store the devices in a cool, dry place away from direct sunlight and extreme temperatures.
- **Antennas:** Handle the external antennas with care to prevent damage. Ensure they are securely attached during use.
- **Power Supply:** Always use the recommended 5V2A power supply to prevent damage from insufficient or excessive power.

7. TROUBLESHOOTING

If you encounter issues with your Lemorele R1100 system, refer to the following common problems and solutions:

- **No Signal/Unsuccessful Screen Casting:**
 - Ensure both TX and RX units are powered correctly with a 5V2A supply.
 - Verify HDMI cables are securely connected to both source and display devices.
 - Check that the input source on your display device is set to the correct HDMI port.
 - Confirm that the TX and RX units are within the effective transmission range.
- **Connection Lags/Sudden Disconnection:**
 - This is often caused by insufficient power. Ensure a stable 5V2A power supply is used for both units.
 - Reduce the distance between the TX and RX units.
 - Minimize obstructions (walls, large objects) between the units.
 - Check for strong Wi-Fi interference from other devices in the vicinity.
- **Display Interface Not Showing SSD/Password:**
 - This indicates a power issue. Confirm both units are receiving adequate 5V2A power.
 - Restart both the TX and RX units.
- **Audio Not Working:**
 - Ensure the audio output settings on your source device are correct.
 - Check the volume levels on your display device.
 - Verify HDMI cable connections.

8. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	Lemorele
Model	R1100
Resolution	1080p (1080P@60Hz)
Transmission Frequency	5.8G Wi-Fi
Transmission Distance (1TX to 1RX)	Up to 200 meters (656 feet)
Latency	Less than 50ms
Connectivity Technology	HDMI
Connector Type	HDMI
Power Supply	USB-C (5V2A recommended), NP-F Battery (RX only)
Product Dimensions	10 x 2 x 2.7 cm (approximate per unit)
Item Weight	36.2 Grams (approximate per unit)

9. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your Lemorele R1100 Wireless HDMI Transmitter and Receiver, please refer to the contact information provided on the product packaging or visit the official Lemorele website. Keep your purchase receipt for warranty claims.