

Elalight DT257W-H

Elalight Wireless HDMI Transmitter and Receiver User Manual

Model: DT257W-H

INTRODUCTION

The Elalight Wireless HDMI Transmitter and Receiver kit provides a convenient solution for extending HDMI signals wirelessly. This system eliminates the need for long HDMI cables, offering a clean and efficient way to transmit video and audio from a source device to a display. It supports 4K decoding and outputs up to 1080P/60Hz, utilizing 2.4G/5G dual-band transmission for stable connectivity over distances up to 382 feet (100 meters).



Image: The Elalight Wireless HDMI Transmitter and Receiver units, shown with various adapters for versatile connectivity.

WHAT'S IN THE BOX

Your Elalight Wireless HDMI Transmitter and Receiver kit includes the following components:

- 1x Wireless HDMI Transmitter (TX)
- 1x Wireless HDMI Receiver (RX)
- 1x USB-C to HDMI 4K Adapter
- 1x Micro HDMI 8K Adapter
- 1x Mini HDMI 8K Adapter
- USB Power Cables (for TX and RX)



Wireless hdmi Kit had been paired in your hand

Please reference following steps
if any repair issue

Step 1. Connect TX to computer/TV box and RX to monitor/Projector/TV.

Step 2. Connect TX and RX to a power source.

Step 3. After connecting TX and RX, TX flashes and RX stays on.

Step 4. Press and hold RX for more than 7 seconds, and "ready to pair" appears on the display.

Step 5. Now press and hold TX for more than 7 seconds, TX will turn off briefly and then flash again, wait for 5-20 seconds.

Step 6. "Paring" begins to appear on the screen, and a QR code appears (the "x" state will become "√" after a few seconds).

Step 7. Wait for 5-10 seconds before the screen starts sharing. Just set it once, and it will pair automatically next time.

Image: All components included in the Elalight Wireless HDMI Transmitter and Receiver kit.

SETUP INSTRUCTIONS

The Elalight Wireless HDMI system is designed for plug-and-play operation, requiring no software installation, Wi-Fi, or Bluetooth pairing for initial setup.

Initial Connection

- 1. Connect the Transmitter (TX):** Plug the Wireless HDMI Transmitter into the HDMI output port of your source device (e.g., laptop, PC, camera, TV box, gaming console). If your source device has a different HDMI port type (Mini HDMI, Micro HDMI, or USB-C with HDMI output), use the appropriate adapter provided.
- 2. Connect the Receiver (RX):** Plug the Wireless HDMI Receiver into an available HDMI input port on your display device (e.g., HDTV, monitor, projector).
- 3. Power the Devices:**
 - The Transmitter (TX) can often draw power directly from the source device's HDMI port. However, if

the connection is unstable or the source cannot supply sufficient power, connect the TX unit to a 5V/2A power adapter using the provided USB cable.

- The Receiver (RX) typically requires external power. Connect the RX unit to a 5V/2A power adapter or an available USB port on your display device using the provided USB cable.

4. **Automatic Pairing:** Once both TX and RX units are powered on and connected, they will automatically attempt to pair. The TX unit's indicator light will flash, and the RX unit's light will remain steady when a connection is established. The screen will display content within a few seconds.



Image: Visual guide to the simple plug-and-play connection process.

Manual Pairing (If Needed)

If the devices do not pair automatically or if you encounter connection issues, follow these steps to manually re-pair the units:

1. Ensure both TX and RX are connected to their respective devices and power sources.
2. Press and hold the button on the Receiver (RX) unit for more than 7 seconds. The display will show "ready to pair".
3. Immediately after, press and hold the button on the Transmitter (TX) unit for more than 7 seconds. The

TX unit will briefly turn off and then flash again. Wait for 5-20 seconds.

4. The screen will indicate "Pairing" and a QR code may appear. After a few seconds, the connection should be established.
5. Wait for 5-10 seconds for the screen sharing to begin. The units will automatically pair next time.



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Step 2. Connect TX and RX to a power source.

Step 3. After connecting TX and RX, TX flashes and RX stays on.

Step 4. Press and hold RX for more than 7 seconds, and "ready to pair" appears on the display.

Step 5. Now press and hold TX for more than 7 seconds, TX will turn off briefly and then flash again, wait for 5-20 seconds.

Step 6. "Pairing" begins to appear on the screen, and a QR code appears (the "x" state will become "√" after a few seconds).

Step 7. Wait for 5-10 seconds before the screen starts sharing. Just set it once, and it will pair automatically next time.

Image: Detailed steps for re-pairing the Elalight Wireless HDMI units.

OPERATING MODES

The Elalight Wireless HDMI system supports two primary operating modes:

- **Mirroring Mode:** Duplicates the content from your source device onto the connected display. This is ideal for presentations or sharing content directly.
- **Extension Mode:** Extends your desktop, allowing you to have different content on your source device and the connected display. This is useful for multitasking or expanding your workspace.



Image: Demonstrating the Mirroring and Extension display modes.

KEY FEATURES

- **4K Decoding, 1080P Full HD Output:** Supports 4K video decoding and outputs ultra-high-definition video at 1080P/60Hz for clear visuals.
- **Long Range Transmission:** Achieves wireless transmission up to 382 feet (100 meters) in open environments.
- **Ultra-Low Latency:** Offers latency less than 0.06 seconds, providing an almost real-time viewing experience.
- **Dual-Band Connectivity:** Utilizes 2.4G and 5G transmission protocols for strong anti-interference and stable signal.
- **Compact and Portable:** Lightweight design (0.2 lbs) allows for easy transport and setup.
- **Wide Device Compatibility:** Works with PCs, laptops, cameras, DVs, TV boxes, and compatible smartphones (Samsung S21/Apple 15/iPad 10th Gen or above with HDMI output support) to projectors, monitors, and HDTVs.

382FT (100M)

Ultra Long Transmission Distance
<0.1S Latency

Note: Transmission distance and speed may be affected when the product passes through walls or encounters obstacles.

Image: Illustrating the long-range transmission capability of the device.



Image: Highlighting the dual-band stable and efficient transmission.

USAGE SCENARIOS

This wireless HDMI extender is suitable for a variety of applications, including:

- Business meetings and large conferences
- Educational settings and teaching
- Home theater and outdoor entertainment
- Live camera feeds and photographic work
- Streaming live sports

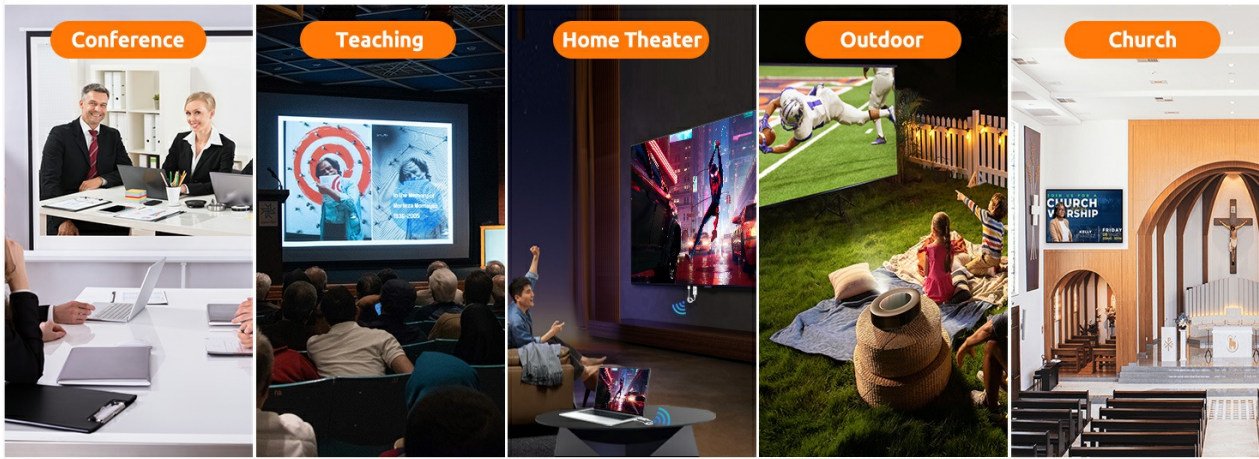


Image: Examples of diverse environments where the Elalight Wireless HDMI system can be used.

IMPORTANT NOTES

- **Power Supply:** If the connection is unstable or your computer cannot supply sufficient power to the Transmitter (TX), ensure both the TX and RX units are powered via a 5V/2A adapter connected to their micro power interfaces.
- **Obstacles and Range:** Transmission distance and speed may be affected when the signal passes through walls or encounters other obstacles. For optimal performance, minimize obstructions between the transmitter and receiver.
- **Gaming Use:** This device is **NOT RECOMMENDED FOR GAMING USE** due to potential latency, although minimal.
- **Smartphone Compatibility:** For smartphone/tablet use, ensure your device (e.g., Samsung S21, Apple 15, iPad 10th Gen or above) supports image output via its Type-C port to HDMI. A Type-C to HDMI transmission function is required.

TROUBLESHOOTING

- **No Signal/Unstable Connection:**
 - Ensure both Transmitter (TX) and Receiver (RX) units are properly powered. Connect both to a 5V/2A power adapter if necessary.
 - Verify that the HDMI cables and adapters are securely connected.
 - Reduce the distance between the TX and RX units and remove any major obstructions (walls, large furniture) that might interfere with the wireless signal.
 - Perform a manual pairing process as described in the "Manual Pairing" section.
- **Poor Video Quality/Stuttering:**
 - Check for signal interference from other wireless devices operating on 2.4G or 5G frequencies.
 - Ensure the TX and RX units are within optimal range and have a clear line of sight.
 - Confirm your source device is outputting a compatible resolution (up to 1080P/60Hz is supported for output).
- **No Audio:**
 - Verify audio settings on both your source device and display.
 - Ensure the HDMI connection is secure.

SPECIFICATIONS

Feature	Specification
Brand	Elalight
Model Number	DT257W-H
Item Weight	5 ounces
Product Dimensions	5.8 x 3.7 x 1 inches
Output Wattage	5 Watts
Connectivity Technology	USB (for power), Wireless HDMI
Controller Type	Button Control
Compatible Devices	Laptop, PC, Camera, DV, TV Box, Smartphone (Samsung S21/Apple 15/iPad 10th Gen or above with image output)
Total HDMI Ports	1 (per unit)
Connector Type	HDMI
Audio Output Mode	Stereo
Surround Sound Channel Configuration	2.1
Video Encoding	H.264, H.265/HEVC
Special Features	0.01s Ultra Low Latency, 382FT/100M Long-Range, 4K Decoding, Dual-frequency EQ, Plug & Play, Mirroring and Extension Mode, Portable, Lightweight

OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video: An official product overview of the Elalight Wireless HDMI Transmitter and Receiver, demonstrating its features and ease of use.

WARRANTY AND SUPPORT

The Elalight Wireless HDMI Transmitter and Receiver kit comes with a **1-YEAR after-sale warranty**. If you have any questions, encounter issues, or require technical assistance, please contact Elalight customer support for prompt resolution.