



Dual Antenna Wireless Multi-Channel Expandable HDMI Extender Installation Guide



Introduction

The *Dual Antenna Wireless Multi-Channel Expandable HDMI Extender* wirelessly transmits HDMI signals with stereo audio up to 165ft.

Features and Benefits

- Supports up to 2 transmitter units (part # CE-H23811-S1 sold separately) and 2 receiver units (part # CE-H23911-S1 sold separately). Allows you to choose and broadcast any of the 2 sources to any of the 2 displays simultaneously
- Dual antenna design greatly improves the quality of a wireless link for more stable and seamless video
- 5GHz wireless technology with 10 selectable wireless channels prevents signal interference
- Built-in HDMI output on the transmitter allows for local monitoring of the extended display
- Built-in switch button and the included palm size remote allows control over selection of wireless channels for both RX and TX units to retrieve different video content or set for channel pairing
- Included IR extension modules allow remote controlling of the HDMI source device from the display unit
- Premium aluminum housing that enhances durability. Slim and low profile design is versatile enough to adopt into any environment

Package Contents

- *Dual Antenna Wireless Multi-Channel Expandable HDMI Extender*
- IR blaster extension cable
- IR receiver extension cable
- Power adapters (x2)
- Remote control (with one battery)
- Installation Guide

Specifications

Wireless Technology	5 GHz
Signal Type	HDMI
HDMI Version	HDMI 1.3 compatible
HDCP Version	HDCP 1.2 compatible
Transmission Distance	Up to 50m (165ft)
Supported Resolutions	1080p/1080i/720p/576p/576i/480p/480i
HDMI Cable Distance	Up to 5m (Input & Output)
Audio Format	R/L stereo audio (2-ch)
Power	<u>Input:</u> AC 100-240V, 50/60Hz <u>Output:</u> DC 5V/2A
Color	Black
Dimensions (TX/RX)	5.51" (W) x 0.98" (H) x 3.10" (D)
Weight (TX/RX)	Approx. 0.55 lbs
Operating Temperature	32 to 122 degrees F
Storage Temperature	14 to 140 degrees F
Operating Humidity	0% ~ 90% RH (non-condensing)

Note: The transmission distance will vary depending on building layout, electronic interference, other environmental conditions, and may be much less than the maximum.

Product Layout

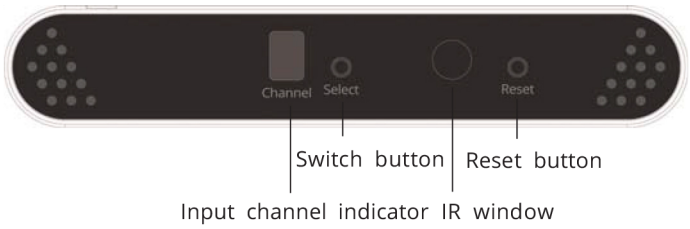


Figure 1: Transmitter (TX) - front side

- **Input channel indicator:** Indicates the input channel selected. There are 10 channels (0-9)
- **Switch button:** Press to select the channel
- **IR window:** Receives infrared signals from the included remote control
- **Reset button:** Press to reset the transmitter

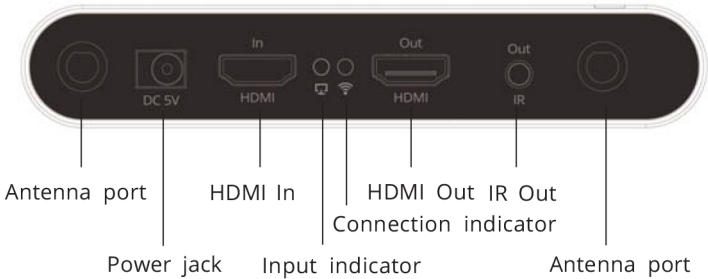


Figure 2: Transmitter (TX) - rear side

- **Antenna port:** Attach the included Antenna here
- **Power jack:** Connects to the included power adapter
- **HDMI In:** Connects to your HDMI source with a HDMI cable (cable not included)
- **Input indicator:** On when the HDMI signal is detected
- **Connection indicator:** On when the transmitter and receiver are linked

- **HDMI out:** Connects to a local HDMI display
- **IR out:** Plug the IR Blaster extension cable here

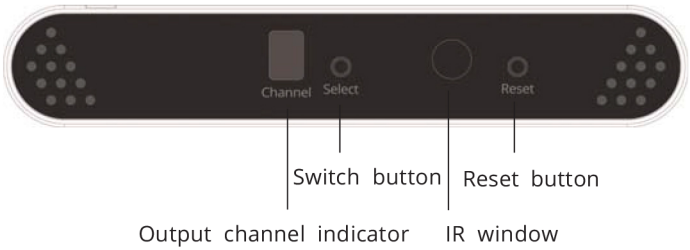


Figure 3: Receiver (RX) - front side

- **Output channel indicator:** Indicates the channel selected. There are 10 channels (0-9)
- **Switch button:** Press to select the channel
- **IR window:** Receives infrared signals from the included remote control
- **Reset button:** Press to reset the receiver

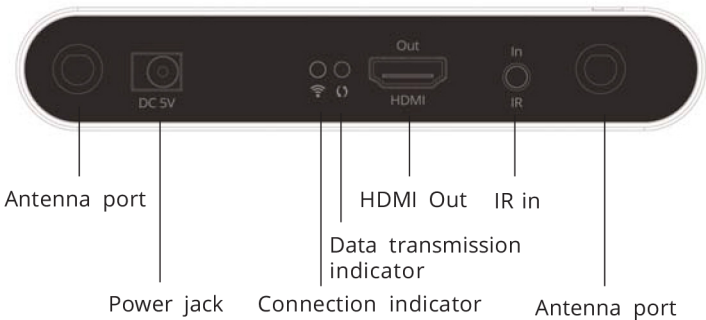


Figure 4: Receiver (RX) - rear side

- **Antenna port:** Attach the included Antenna here
- **Power jack:** Connects to the included power adapter
- **Connection indicator:** On when the transmitter and receiver are linked

- **Data transmission indicator:**
 - Blinks slowly when searching for wireless signal
 - Blinks fast when wireless signal is linked
- **HDMI Out:** Connects to your HDMI display with a HDMI cable (cable not included)
- **IR in:** Plug the IR Receiver extension cable here
- **Antenna port:** Attach the included Antenna here

IR Extension cables (20-60Hz Frequency Range)

The IR Extension feature allows you to control your HDMI source device from a remote location.



Figure 5: IR blaster extension cable (IR OUT)



Figure 6: IR receiver extension cable (IR IN)

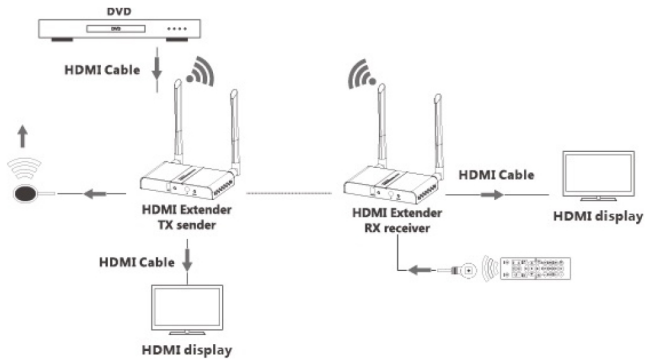
- **IR blaster extension cable (IR OUT):** Plugs into the Transmitter's **IR Out** socket. It emits the IR signals received from the **IR receiver extension cable** of the Receiver unit and directs it to the HDMI source's IR receiver window
- **IR receiver extension cable (IR IN):** Plugs into the Receiver's **IR In** socket. It receives IR signals from the HDMI source's remote control and directs it to the **IR blaster extension cable** of the Transmitter unit

Hardware Installation

1. Power off all devices including your HDMI source and display.
2. Attach the included antennas to the TX and RX.
3. Connect your HDMI source to the Transmitter's **HDMI IN** connector.
4. Connect your HDMI display to the transmitter's **HDMI OUT**. This connection is optional and needed only when local monitoring of the video signal is desired.
5. Optional: Connect the **IR Blaster extension cable** to the Transmitter's **IR Out**. Face the eye towards your HDMI device's IR window. This connection is needed only if you need to control your HDMI source from the remote location.
6. Connect your HDMI display to the Receiver's **HDMI OUT** connector with an HDMI cable (not included).
7. Optional: Connect the **IR Receiver extension cable** to the Receiver's **IR In**. This connection is needed only if you need to control your HDMI source from the remote location.
8. Plug the included power adapters into the Transmitter's and Receiver's **Power Jacks**, then plug both power adapters into reliable power outlets.
9. Power on your HDMI device and HDMI display.
10. Use the included remote control or built-in switch button to select the same channel for the TX and RX (for channel pairing).
11. The *device* is ready for use.

Application

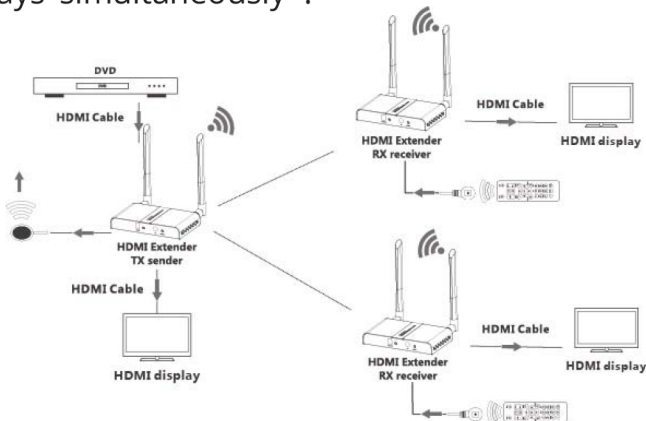
Extends HDMI A/V signals to a remote display up to 165ft away and supports high resolutions up to 1080p Full HD.



Note: The transmission distance will vary depending on building layout, electronic interference, other environmental conditions, and may be much less than the maximum.

Figure 7

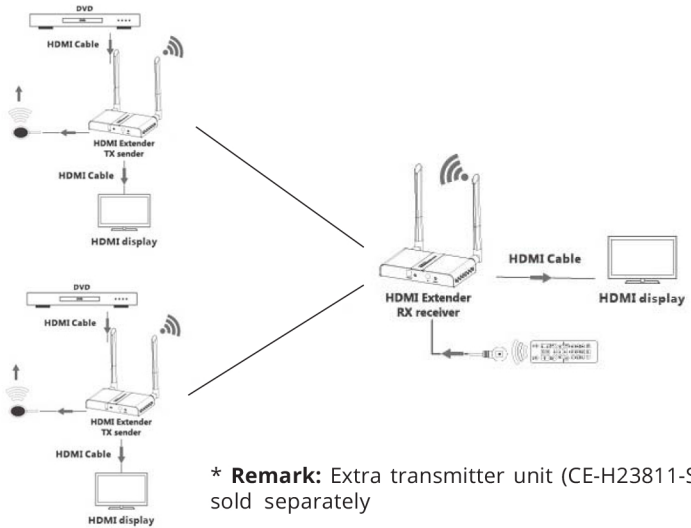
Multicast ability: Broadcasts and independent streams video content to two remotely located displays simultaneously*.



* **Remark:** Extra receiver unit (CE-H23911-S1) sold separately

Figure 8

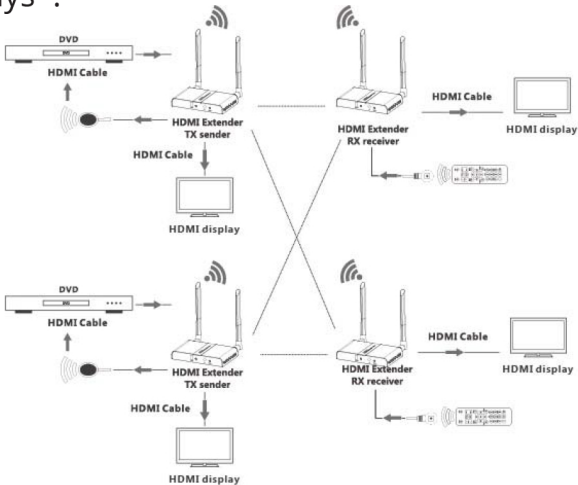
Matrix (2 TX's to 1 RX): Select any of the 2 sources* to broadcast to the display.



* **Remark:** Extra transmitter unit (CE-H23811-S1) sold separately

Figure 9

Matrix (2 TX's to 2 RX's): Allows you to switch and select any of the 2 sources* to broadcast to any of the 2 displays*.



* **Remark:** Extra transmitter unit (CE-H23811-S1) and receiver unit (CE-H23911-S1) sold separately

Figure 10

Notice

- Wireless signals transmitted through walls, glass, brick or other solid objects will cause signal loss and decrease the transmission distance
- It's recommended that the distance between two receivers not less than 3 meters
- **DO NOT** expose the *unit* to rain, moisture, or liquids
- **DO NOT** open the housing, doing so will void the warranty and may cause personal injury due to electronic hazard
- **DO NOT** plug-in or take-out the IR extension cables when the *unit* is powered on

FAQ & Solutions

Q: The transmitter unit and receiver unit can't connect with each other:

A: 1) Please check that both transmitter and receiver are powered on.

2) Please check the input channel of the transmitter and output channel of the receiver are the same.

3) Please check if there is HDMI signal input from the Transmitter (TX) unit.

4) Use different HDMI cables.

Q: The display is not clear or stable:

A: 1) Check the HDMI cable lengths are within 5m.

2) Check the transmission distance is within 50m.

3) Remove other wireless signals and move any obstacles that are blocking the signal.

4) Decrease the distance between the transmitter unit and the receiver unit.