



HDMI Wireless Extender 4K60Hz - 50m User's Guide



P/N:HD20wireless

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Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Please pay close attention to all warnings and hints for this device
- Do not expose this unit to rain, heavy moisture, or liquid
- Do not put any items into the device or attempt to modify its operation
- Do not repair the device or open the enclosure without professional guidance to avoid electric shocks. Doing so may void your warranty
- Keep the product in a well-ventilated location to avoid damage from overheating
- Shut off power and make sure environment is safe before installation
- Do not plug the HDMI cables and IR cables in/out when the device is in use to avoid cable damage. Make sure they are plugged into the correct ports
- Use the included power adapters only. Make sure the specification matches if using 3rd-party DC power adapters

Introduction

The HDMI Wireless Extender 4K60Hz - 50m transmits HDMI signals wirelessly up to 164ft (50 m) at 4K@60Hz resolution. It requires no cables between the Transmitter (TX) and Receiver (RX), making the installation easy and clean. Great for homes and offices.

Note: Wireless transmission distance will vary due to the environmental conditions. Thick walls, brick, glass, electronic interference, and wireless signals from other devices will shorten the wireless transmission distance or cause signal loss.

Features

- Wireless transmission distance: 164ft (50m) at 4K @60Hz
- Supports PCM 2-channel audio
- Supports SSID channel pairing to avoid interference
- Supports up to 4K @60Hz and backward compatible with lower resolutions, including 2K
- HDCP 2.2/ 1.4 compliant
- Dual antenna design operating in a 5GHz wireless spectrum
- Equipped with HDMI loopout and one-way IR extension
- Less than 120ms latency. Not recommended for real-time applications

Package Contents

- HDMI Wireless Extender 4K60Hz - 50m (1 TX and 1 RX)
- IR blaster cable (1pc)
- IR receiver cable (1pc)
- Antenna (4pcs)
- Power adapter (2pcs)
- Mounting accessories
- User guide

Installation Requirements

1. HDMI source device (DVD player, set top box, PC, etc.)
2. HDMI display device (SDTV/Monitor, HDTV/Monitor, projector, etc.)
3. HDMI cables (not included)

Product Layout

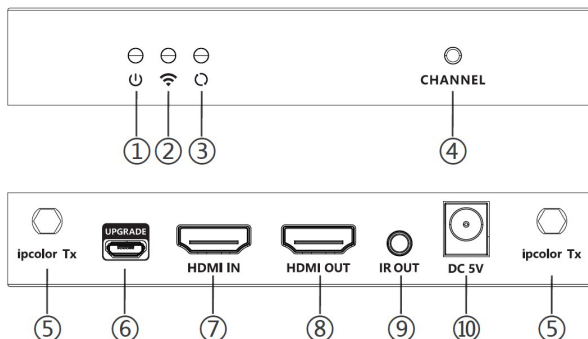


Figure 1: Transmitter (TX)

1. Power LED	On when the transmitter is powered on
2. WiFi LED	a) Slow flash: Waiting for connection b) Solid on: Connection successful c) Quick flash: Pairing mode
3. Signal LED	a) Light off: No HDMI signal b) Solid on: HDMI signal transmitting c) Quick flash: Restore factory settings
4. Channel Switching Button	a) Quick press to switch WiFi channels b) Press and hold for 5 seconds to place into channel pairing mode c) Press and hold for 10 seconds to restore to factory default settings
5. Antenna Connector	Connect to the included antennas
6. Micro USB Port	Used for firmware update
7. HDMI In	Connect to your HDMI source using an HDMI cable (HDMI cable not included)
8. HDMI Out	Connect to your HDMI display using an HDMI cable for local monitoring of the remote display device (HDMI cable not included)
9. IR Out	Connect to the included IR blaster cable
10. Power Jack	Connect to the included power adapter

***Note:** TX and RX SSID channel pairing is required after a factory reset. See SSID Channel Pairing on page 9.

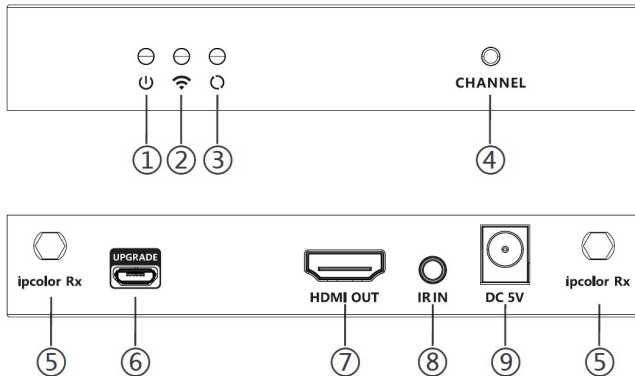


Figure 2: Receiver (RX)

1. Power LED	On when the receiver is powered on
2. WiFi LED	a) Slow flash: Waiting for connection b) Solid on: Connection successful c) Quick flash: Pairing mode
3. Signal LED	a) Light off: No HDMI signal b) Solid on: HDMI signal transmitting c) Quick flash: Restore factory settings
4. Channel Switching Button	a) Quick press to switch WiFi channels b) Press and hold for 5 seconds to place into pairing mode c) Press and hold for 10 seconds to restore to factory default settings
5. Antenna Connector	Connect to the included antennas
6. Micro USB Port	Used for firmware update
7. HDMI Out	Connect to your HDMI display using an HDMI cable for local monitoring of the remote display (HDMI cable not included)
8. IR In	Connect to the included IR receiver cable
9. Power Jack	Connect to the included power adapter

***Note:** TX and RX SSID channel pairing is required after a factory reset. See SSID Channel Pairing on page 9.

Hardware Installation

1. Power off all devices including your HDMI source and HDMI display.
2. Install the included antennas to the TX and RX.
3. Pair the TX and RX. See SSID Channel Pairing on page 9.
4. Connect your HDMI source device to the Transmitter's HDMI In connector with an HDMI cable (HDMI cable not included).
5. Optional: Connect your HDMI display to the Transmitter's HDMI Out connector with an HDMI cable (HDMI cable not included). This connection is needed only if you need to monitor the remote display device from the source device location.
6. Optional: Connect the IR blaster cable to the Transmitter's IR interface port. Face the eye towards your HDMI source device's IR window. This connection is needed only if you need to control your HDMI source from the remote display location.
7. Connect your HDMI display to the Receiver's HDMI Out connector with an HDMI cable (HDMI cable not included).
8. Optional: Connect the IR receiver cable to the Receiver's IR interface port. This connection is needed only if you need to control your HDMI source from the remote display location.
9. Plug the included power adapters into the Transmitter's and Receiver's Power Jacks, then plug both power adapters into reliable power outlets.

10. Power on your HDMI source device and HDMI display. The wireless extender is ready for use.

Note: For optimal signal range, install in a clear environment with few obstacles. Wireless signals from other devices may interfere with transmission. Contact our technical support team if you have specific questions.

Channel Switching

If you find that the extender does not provide adequate or desired results, switching channels may help resolve the issue. Follow the steps below to switch to the best wireless frequency.

1. Press the channel switching button on either the transmitter unit or receiver unit.
2. The transmitter and receiver will automatically switch to the next best channel.

Wireless Frequency

NO.	Frequency
Channel 1	5.180 GHz
Channel 2	5.200 GHz
Channel 3	5.220 GHz
Channel 4	5.240 GHz

SSID Channel Pairing

When there are multiple wireless extender kits operating in close proximity, having the same SSID on each kit may cause interference or conflicts. It is suggested to change the SSID on one kit to help resolve the issue. Follow the SSID channel pairing steps below.

1. Press and hold down both transmitter's and receiver's channel switching button simultaneously for 5 seconds. The WiFi LEDs will flash quickly.
2. When pairing is successful the WiFi LEDs will change to solid on.
3. Power off the TX and RX after pairing.

Note: Repeat steps 1-3 if pairing is not successful.

Factory Reset

1. Press and hold down both transmitter's and receiver's channel switching button simultaneously for 10 seconds. The WiFi LEDs will flash quickly.
2. The WiFi LEDs will change to solid on when factory reset is successful.
3. Power off the TX and RX after factory reset.

***Note:** TX and RX SSID channel pairing is required after a factory reset. See SSID Channel Pairing on page 9.

Connection Diagram

The diagram shows the typical devices used with the wireless extender.

One to one connection

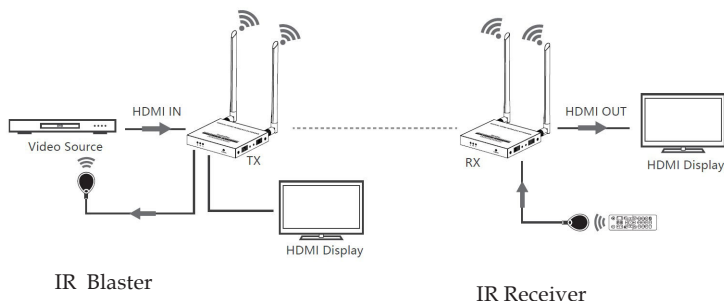


Figure 3: Connection Diagram

Notice

- Wireless signals transmitted through walls, glass, brick or other solid objects will cause signal loss and decrease the transmission distance
- External wireless signals from microwaves, wireless mice and wireless keyboards will interfere with HDMI signal transmission
- Keep the unit in a well ventilated environment to prevent it from overheating
- **DO NOT** expose the unit to rain, moisture, or liquids
- **DO NOT** place anything on the unit
- **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 remove the IR cables when the

FAQ & Troubleshooting

Q: The WiFi LED is on, but no video output on the remote display:

- A:
- 1) Check the HDMI source device is powered on.
 - 2) Check the transmitter's and receiver's Signal LED is solid on.
 - 3) Check the HDMI cables for solid connection. Use different HDMI cables if necessary.
 - 4) Press and hold down the channel switching button for 5 seconds on both the TX and RX to refresh the wireless signal. See Pairing Instructions on page 8.
 - 5) Connect the HDMI source device directly to the display to see if there is a signal.

Q: Poor video quality:

- A:
- 1) Check the HDMI cables are connected properly. Use different HDMI cables if necessary.
 - 2) Change the angle of the antenna on the transmitter unit and receiver unit. Generally, the antenna angle should be positioned as far apart as possible.
 - 3) Adjust the position of transmitter unit and receiver unit, and make sure they are within the required signal range.
 - 4) Remove other wireless signals and move any obstacles that are blocking the signal line-of-sight.
 - 5) Decrease the distance between the transmitter unit and the receiver unit.
 - 6) Press and hold down the channel switching button for 5 seconds on both the TX and RX to refresh the wireless signal. See Pairing Instructions on page 8.

Specifications

Compliance	HDCP 2.2 / 1.4
Resolutions	3840x2160@24/30/50/60Hz, 1080p@ 50/60Hz, 720p@50/60Hz, 1920x1200, 2560x1440, 2560x1600
WiFi Frequency	5.18 - 5.24 GHz
Transmission Distance	Up to 164ft (50m) at 4K60Hz
Latency	≤ 120ms
IR	Frequency: 20 - 60KHz Distance: < 5m
Operating Temperature	-4 to 140 F (-20 to 60 C)
Storage Temperature	-22 to 158 F (-30 to 70 C)
Humidity	0% to 90% non condensing
Power Consumption	TX: ≤ 6W RX: ≤ 4W
Power Adapter	DC 5V / 2A
Dimensions (WxLxH)	TX & RX: 4.5" x 4.9" x 0.8" (115 x 125 x 20.6 mm)
Product Weight	TX: 0.79 lb (353g) RX: 0.76 lb (346g)

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