

Wireless HDMI Extender, 4K 60Hz, Transmitter and Receiver Kit, Up to 165ft (50m), No Line-Of-Sight Required, IR Extension, Includes Mounting Kit

Product ID: ST121WHDS2



Connect the Transmitter Unit to an HDMI source and the Receiver Unit to an HDMI display to wirelessly transmit 4K 60Hz HDMI at distance of up to 165 feet (50 meters), using this Wireless HDMI Extender Kit.

This wireless HDMI extender eliminates the need for a separate ethernet cable between the transmitter and receiver, providing a clean and flexible setup. Operates with or without line of sight (LOS/NLOS), making it ideal for media closets and cabinets. Also, the transmitter features an HDMI output for connecting a local display, making it ideal for presentations and conferences. A 5GHz point-to-point connection between the transmitter and receiver avoids the more congested 2.4GHz wireless frequencies. Up to four paired extender kits can be used in the same area.

This wireless HDMI extender offers a straightforward, plug-and-play experience, eliminating the need for IP configurations, software installations, or driver setups, making it an accessible solution for various applications.

The included mounting kits enable versatile installation options for both the transmitter and receiver. An IR blaster and receiver are also included to extend infrared signals. Optional rubber feet are included for added stability and surface protection.

This extender supports HDMI 2.1 TMDS with 18Gbps bandwidth, HDCP 1.4/2.2, 2.1 channel audio, and Audio Return Channel (ARC). It uses a dual-antenna design for improved wireless performance. This wireless HDMI extender features 8kV air and 6kV contact electrostatic discharge (ESD) protection.

Certifications, Reports and Compatibility





Applications

- Connect to an HDMI source and display to wirelessly transmit 4K 60Hz HDMI w/2.1ch ARC
- Place the display in a convenient viewing area while the system equipment is located elsewhere in a clean and safe environment

Features

- **HDMI OVER WIRELESS:** Wirelessly transmit 4K 60Hz HDMI signals up to 165ft (50m) in a point-to-point setup; No line of sight required making it ideal for presentations and digital signage in conference centers, houses of worship, and large venues
- **LOCAL HDMI PASS-THROUGH:** Transmitter features an HDMI output (loop-out) to connect a local display; Ideal for presentation centers, boardrooms/meeting rooms, classrooms, trade shows, and conference centers
- **NO DRIVERS OR SOFTWARE:** No IP configuration, software, or drivers are required, ensuring a streamlined cable-free extension; 5GHz point-to-point connection from transmitter to receiver supports channel switching to avoid interference in busy environments
- **INSTALLATION OPTIONS:** Included mounting kit for transmitter/receiver provides versatile installation options; Up to 4 paired extender kits in one local area; IR Blaster/Receiver for IR extension; No cable run ensures a clutter-free, rapid setup
- **TECHNICAL SPECIFICATIONS:** HDMI 2.1 TMDS supporting 18Gbps bandwidth, HDCP 1.4/2.2, 2.1ch audio, and Audio Return Channel (ARC); 5GHz wireless dual-antenna design; 8kV air and 6kV contact level-3 ESD protection

Hardware

Warranty	2 Years
Ports	1
Cabling	Wireless Ethernet
Audio	Yes
Rack-Mountable	No
Industry Standards	HDMI 2.1 (TMDS)

Performance

Max Distance	50m [164ft]
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Maximum Digital Resolutions	4K 60Hz
Supported Resolutions	4096x2160 @ 30hz 3840 x 2160 @ 60hz 3840 x 2160 @ 30hz 2560 x 1600 @ 60hz 2560 x 1440 @ 60hz 2048 x 1536 @ 60hz 1920 x 1440 @ 60hz 1920 x 1200 @ 60hz 1920 x 1080 @ 60hz 1680 x 1050 @ 60hz 1600 x 1200 @ 60hz 1600 x 1024 @ 60hz 1600 x 900 @ 60hz 1366 x 768 @ 60hz 1360 x 768 @ 60hz 1360 x 765 @ 60hz 1280 x 1024 @ 60hz 1280 x 960 @ 60hz 1280 x 800 @ 60hz 1280 x 768 @ 60hz 1280 x 720 @ 60hz 1176 x 664 @ 60hz 1152 x 864 @ 60hz 1024 x 768 @ 60hz 800 x 600 @ 60hz Other SDR resolutions may be supported
Wide Screen Supported	Yes
Bandwidth	18Gbps
Audio Specifications	HDMI - 2 Channel Audio

	Frequency	5.1 - 5.2 GHz
	General Specifications	HDCP 1.4/HDCP 2.2
Connector(s)		
	Local Unit Connectors	1 - HDMI 1 - HDMI 1 - USB Micro-B (5 pin) 1 - 3.5mm Stereo Female 3 pos 2 - SMA (Coax, SubMiniature A)
	Remote Unit Connectors	1 - HDMI 1 - USB Micro-B (5 pin) 1 - 3.5mm Stereo Female 3 pos 2 - SMA (Coax, SubMiniature A)
Software		
	OS Compatibility	No Drivers or Software Required
Special Notes / Requirements		
	Note	Transmission distances may vary based on the installation environment. Solid structures like walls, bricks, and glass can reduce or completely block signals. Up to four Wireless HDMI Extender Kits can be used in a single local area. The firmware update port is for manufacturer use only.
Indicators		
	LED Indicators	1 - Power Indicator Solid Blue: Unit is Receiving Power 1 - Wireless Connection Indicator Solid Orange: Wireless Connection Established Quick Flash: Wireless Pairing Mode

Slow Flash: Waiting for Wireless Connection

1 - HDMI Signal Transmission Indicator

Solid Orange: HDMI Signal is transmitting

Quick Flash: Restoring to Default settings

Off: No HDMI Signal detected

Power

Power Source	2 AC Adapters Included
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Environmental

Operating Temperature	-20C to 60C (-4F to 140F)
Storage Temperature	-30C to 70C (-22F to 158F)
Humidity	0% - 90% RH (non-condensing)

Physical Characteristics

Color	Black
Material	Metal
Product Length	4.9 in [12.5 cm]
Product Width	4.5 in [11.5 cm]
Product Height	0.8 in [2.1 cm]
Weight of Product	12.2 oz [346.0 g]

Packaging Information

Package Length	6.1 in [15.6 cm]
Package Width	14.1 in [35.8 cm]
Package Height	3.5 in [8.9 cm]
Shipping (Package) Weight	3.0 lb [1.4 kg]

What's in the Box

Included in Package	1 - Wireless Transmitter
	1 - Wireless Receiver

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