Prestel

Prestel EW-50C

HDMI over Wireless Extender

USER MANUAL

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduction

This product is based on H.264 standard solution for distributing one HD content to multiple HD display devices. It extends distance the furthest up to 164ft/50m between transmitter and receiver via wireless transmission (An open environment without Wi-Fi interference). It offers high quality configurable, low-bandwidth H.264 compression video supporting resolution up to 1920×1200@60Hz. The Wireless product is designed specifical to transmiting high definition video & audio within one room.

2. Features

☆ HDMI 1.4b, HDCP 1.4 and DVI 1.0 compliant
☆ Supports video resolutions including 480i~1080p, the maximum resolution up to 1920x1200@60Hz
☆ Transmission distance:
   One-to-one and one-to-four connect distance the furthest up to 164ft/50m (An open environment without Wi-Fi interference.)
☆ Audio up to LPCM 2.0CH 32KHz/44.1KHz/48KHz
☆ Supports H.264 high performance codec, adopting high bit rate mode
☆ Supports one-way IR control
☆ End-to-end delays under 150Ms

3. Package Contents

① 1× HDMI over Wireless Transmitter
② 1× HDMI over Wireless Receiver
③ 1× Wideband IR Blaster cable
④ 1× Wideband IR Receiver cable
⑤ 2× WiFi antennas
⑥ 2× 5V/1A Power adapters
⑦ 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 1.4b
HDCP Compliance	HDCP 1.4
Video Bandwidth	4.95Gbps
Video Resolution	480i~1080p, the maximum up to 1920x1200@60Hz
Color Space	RGB/YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	8-bit
HDMI Audio Formats	LPCM 2.0CH 32KHz/44.1KHz/48KHz
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connections	
Transmitter	Inputs: 1x HDMI Type A [19-pin female] Outputs: 1x IR OUT [3.5mm Stereo Mini-jack] 1x WiFi OUT [WiFi antenna]
Receiver	Inputs: 1x IR IN [3.5mm Stereo Mini-jack] 1x WiFi IN [WiFi antenna] Outputs: 1x HDMI Type A [19-pin female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	125mm [W] x 72mm [D] x 16mm [H]
Weight	Transmitter: 225g, Receiver: 219g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	Transmitter: 4.2W, Receiver: 2.7W
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

5. Operation Controls and Functions

5.1 Transmitter Panel

Number	Name	Function description
1	POWER LED	The LED will illuminate when the unit is power on. The light is also used as a pair signal indicator. Please check "6. Pairing Instruction" detail description.
2	PAIR button	Press this button to pairing between transmitter and receiver. Please check "6. Pairing Instruction" detail description.
3	HDMI IN	HDMI input port, connect to HDMI source device such as DVD or PS4 player with an HDMI cable.
4	IR OUT	Connect to wideband IR Blaster cable.
5	DC 5V	Plug the 5V/1A adapter to AC wall outlet for power supply.
6	Antenna port	Connect to WiFi antenna.

5.2 Receiver Panel

Number	Name	Function description
1	POWER LED	This LED will illuminate when the unit is power on. The light is also used as a pair signal indicator. Please check "6. Pairing Instruction" detail description.
2	PAIR button	Press this button to pairing between transmitter and receiver. Please check "6. Pairing Instruction" detail description.
3	HDMI OUT	HDMI output port, connect to HDMI display device such as TV or Projector with an HDMI cable.
4	IR IN	Connect to wideband IR Receiver cable.

5	DC 5V	Plug the 5V/1A adapter to AC wall outlet for power supply.
6	Antenna port	Connect to WiFi antenna.

6. Pairing instruction

① **Pairing methods**

Establish Pairing: Power on the receiver and the transmitter, then press the "PAIR" button simultaneously up to 3s and LED will flicker. When the LED on the receiving end is from flicker to constant light (the LED on the transmitter will be always flicker. When you let go your hand, the LED on the transmitter will be constant light). At this moment, the receiver and the transmitter have paired success.

Note: One-to-one and one-to-many use the same method.

Cancel Pairing: Short pressing "PAIR" button on the receiver (within one second), the LED on the receiving end will flicker once and then stay on. At this moment, the receiver and the transmitter have cancelled pair.

② **Pairing conditions**

One transmitter can connect simultaneously at most four receivers. However, one receiver can only connect simultaneously one transmitter.

③ **Pairing ways**

When a room only has one transmitter and one receiver: If the receiver has not paired, it can automate pair the transmitter.

When a room has one transmitter and many receivers: One transmitter can pair simultaneously at most four receivers.

When a room has many transmitters and one receiver: If the receiver has not paired, the receiver can pair randomly any transmitters; If the receiver need pair designate transmitter, you have to pair manually.

When a room has many transmitters and many receivers: No pair receivers that it can pair randomly any transmitters. If the receivers need pair designate the transmitters, you have to pair manually the receivers and the transmitters.
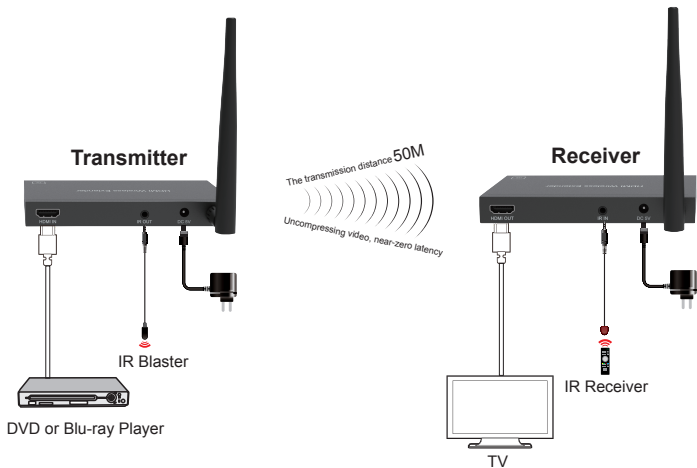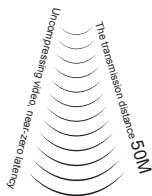
7. Application Example

Transmitter

The transmission distance 50M

Uncompressing video, near-zero latency

Receiver

IR Blaster

DVD or Blu-ray Player

IR Receiver

TV

Figure 1: One transmitter connects one receiver

Figure 2: One transmitter connects at most four receivers