Wireless Multi-Format input Transmitter to HDMI Receiver Box ID # 718



Operation Manual



Introduction

The wireless HDMI transmitter and receiver boxes use baseband technology with Wireless High Definition Interface (WHDI) to deliver uncompressed HD audio and video. It can transmit within a distance of 20 meters while maintaining superb, wired equivalent quality and reliability with little to no lag. Both transmitter and receiver boxes come with built in antennas, making them a sleek addition to your Home or Office. These units can also convert analog and digital signals to HDMI V1.2 in order to be shown on displays.

Applications

- Multi format input to wireless HDMI output
- Integrate your home entertainment system
- Showroom Display

System Requirements

Input source equipment(s) and output display device(s) with HDMI cables.

Features

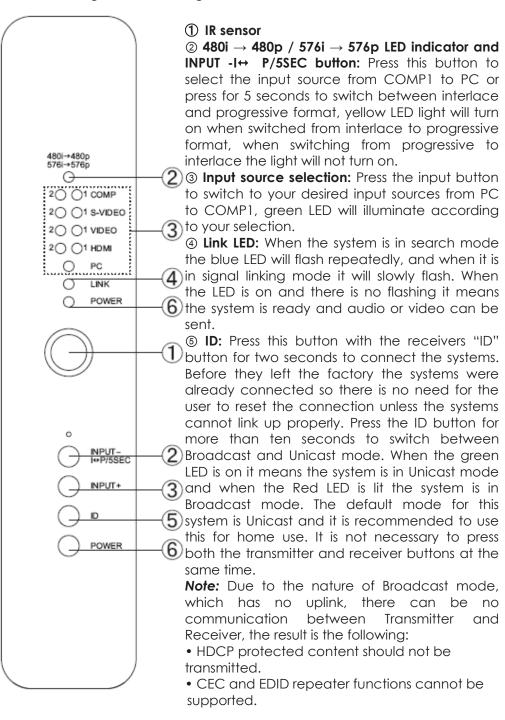
- Uncompressed HD audio/video wireless transmission at wireequivalent quality
- Supports most video resolutions including 480i/p, 576i/p, 720p, 1080i, VGA@60/72Hz, SVGA@56/60/72Hz, XGA@60/70Hz and 1080p@24/30fps
- Supports analog/digital video/audio input and HDMI output to display
- HDCP keysets allows each HDMI input to independently connect to an HDMI display
- Supports 3D comb filter and 3D noise reduction (DNR)
- Supports 3D noise reduction (DNR)
- Supports analog format conversion from 480i/576i to 480p/576p with a hot key on the transmitters front panel and remote control
- Operational within a distance of 20 meters, no direct line of sight required.
- Real time link, with a lag of less than 2 milliseconds.
- Strong 256-bit AEC based encryption for security
- Video Data Rates 1.5Gbps
- 5GHz licensed band, MIMO(Multiple Input Multiple Output) RF
- Supports CEC bypass and input switch functionality
- Fully HDCP Compliant
- Operational in either Unicast or Broadcast mode
- Auto shutdown when one of the devices is turned off
- Instant signal transmission with a timing change of less than 10 seconds.
- Control Channel allows two-way communications of 10Kbps
- Audio support PCM (2CH), DTS (5.1CH) & AC3 (5.1CH)



Operating Controls

Transmitter Front Panel

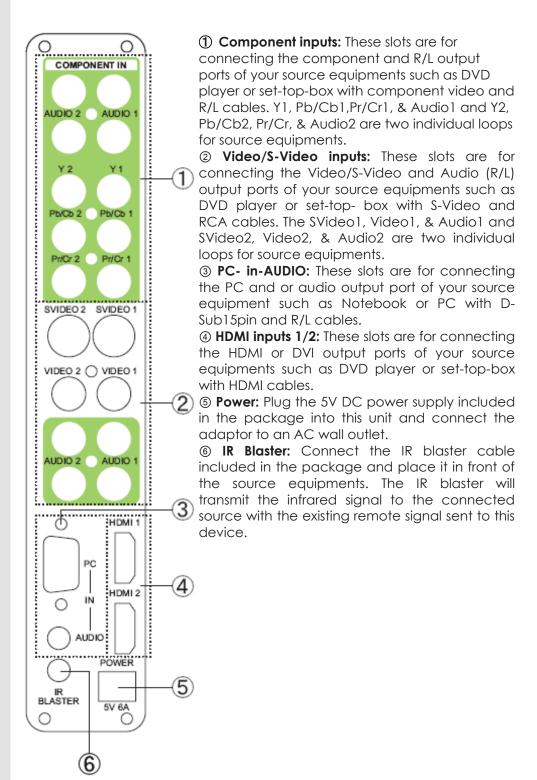
The following sections describe the hardware components of the unit with installation guide and setting methods.





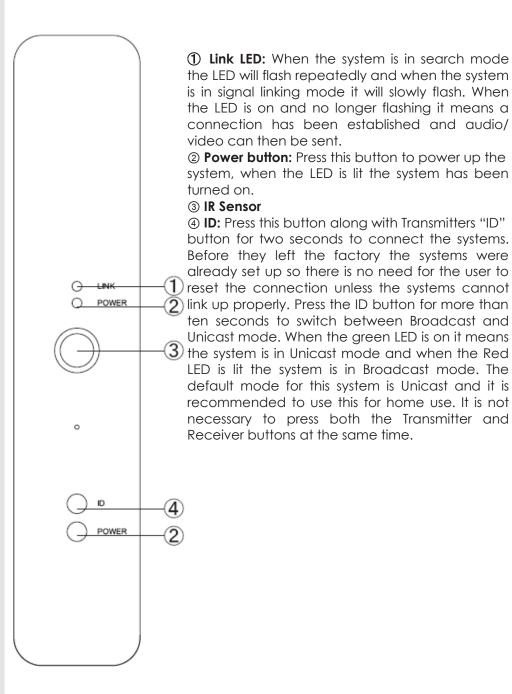
- Broadcast mode is not HDCP compliant.
- Only supports single transmitter link with multiple receivers.
- 6 Power: The LED will illuminate when power is on.

Rear Panel



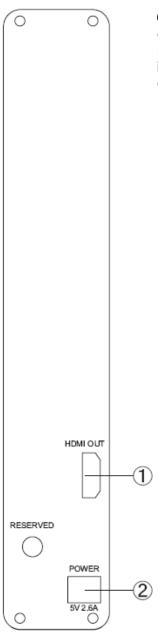


Receiver Front Panel





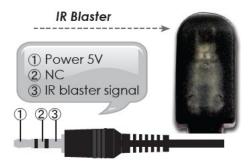
Rear Panel



- ① **HDMI output:** This slot is to connect the HDMI cable to the HDMI input of your display.
- ② Power: Plug in the 5V DC power supply included in the package and connect the adaptor to an AC outlet.



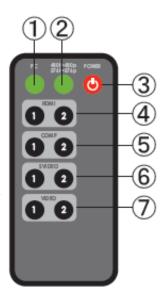
IR Cable Pin Definitions



Note: The frequency on both IR Receiver & Blaster can support 36~387KHz with NEC code.

Remote Control

- ① PC: Press this button to select PC input.
- **② Format selection:** Press this button to switch between Interlace and Progressive format.
- **3** Power: Press this button to turn on/standby the unit.
- **4 HDMI 1/2:** Press no. 1 or 2 buttons to select HDMI 1 or 2 inputs.
- **⑤** Component 1/2: Press no. 1 or 2 buttons to select Component 1 or 2 inputs.
- **6 S-Video1/2:** Press no. 1 or 2 buttons to select S-Video 1 or 2 inputs.
- ⑦ Video1/2: Press no. 1 or 2 buttons to select Video 1 or 2 inputs



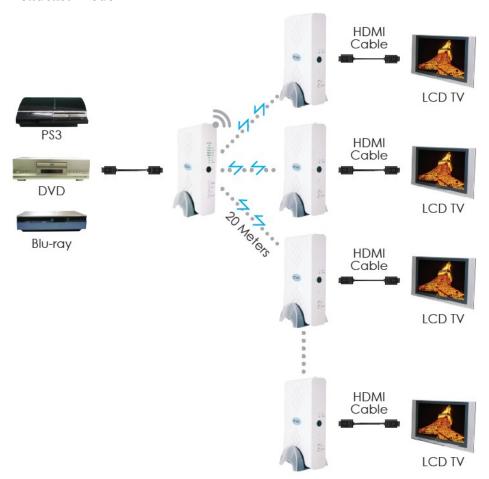
Connection and Installation

Unicast Mode





Broadcast Mode



Remote Control distance





Input Signal Specifications

PC Resolution		Vert Rate
VGA	640x480	60/72Hz
SVGA	800x600	56/60/72Hz
XGA	1024x768	60/70Hz
HDTV Resolutions		Vert Rate
480p	720x480	60Hz
480i	720x480	60Hz
576p	720x576	50Hz
576i	720x576	50Hz
720p	1280x720	50, 60Hz
1080i	1920x1080	50, 60Hz
1080p	1920x1080	24, 30fps

Output Signal Specifications

PC Resolution		Vert Rate
VGA	640x480	60/72Hz
SVGA	800x600	56/60/72Hz
XGA	1024x768	60/70Hz
HDTV Resolutions		Vert Rate
480p	720x480	60Hz
480i	720x480	60Hz
576p	720x576	50Hz
576i	720x576	50Hz
720p	1280x720	50, 60Hz
1080i	1920x1080	50, 60Hz
1080p	1920x1080	24, 30fps



Specifications

Radio Power Transmit power is configurable up to

63mW (+18dBm)

Video Resolutions 480i/p, 576i/p, 720p, 1080i, VGA@60/72Hz,

SVGA@56/60/72Hz, XGA@60/70Hz and

1080p@24/30fps

Frequencies Supported

Modulation

Output port

4.9 ~ 5.9GHz MIMO OFDM with WHDI video-modem

technology

Bandwidth 18MHz

Wireless Range 20 meters open field **Transmitter:** 4 transmit antennas and 2 Antenna

receive antenna

Receiver: 5 receiver antenna and 1

transmit antenna

Digital Video Interface Up to 24 bit RGB or YCbCr (4:4:4)

System Latency Less than 1 millisecond delay between

video/ audio source and sink

Security Strong 256 bit AES-based encryption **Application Bandwidth** Control Channel allows two-way

communications of 10Kbps

2 x Components with R/L Input ports

2 x Video and 2 x S-Video with R/L

2 x HDMI 1 x PC with R/L 1 x IR Blaster

1 x HDMI

Power Supply Transmitter: 5V/6A DC (US/EU standards,

CE/FCC/UL certified)

Receiver: 5V/2.6A DC (US/EU standards,

CE/FCC/UL certified)

ESD Protection Human body model:

> ± 10kV (air-gap discharge) ± 6kV (contact discharge)

Dimensions (mm) **Transmitter:** 226(W) \times 165(D) \times 46(H) **Receiver:** $226(W) \times 165(D) \times 46(H)$

Transmitter:500 Weight(g)

Receiver:440

Chassis Material Plastic Silkscreen Color White

Operating Temperature 0°C ~ 40°C / 32°F ~ 104°F Storage Temperature -20° C ~ 60° C / -4° F ~ 140° F **Relative Humidity** 20~90% RH (non-condensing)

Power Consumption Transmitter: 13.5W

Receiver: 7.6W

