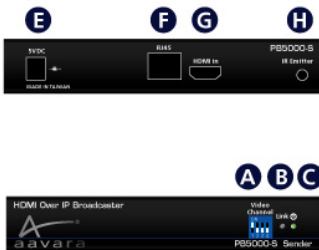


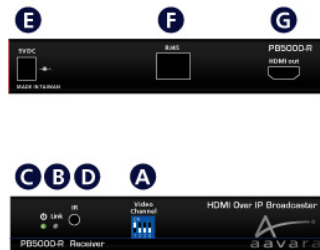
PB5000

HDMI 1080p Broadcaster (HDMI Over IP) w/ IR Pass Thru

Sender



Receiver



- A** Video Channel Selection
- B** Link Detect Indicator
- C** Power Indicator
- D** Receiver: IR Receiver Windows
- E** Power Adapter DC input
- F** RJ-45 Network Connector
- G** Sender: HDMI Input from Video Source
Receiver: HDMI Output to Display/TV/Projector
- H** Sender: IR Emmitter Extend input

* for more information, please visit Aavara.com

Specification

HDMI Video Resolution	480i/p, 576i/p, 720p, 1080i/p
HDMI PC Resolution	Up to 1920x1200@60Hz
Receiver - HDMI Audio Output	Stereo, 16bits, 48KHz
HDMI Specification	v1.3 Compatible
DVI Specification	v1.0 Compliant
HDCP Specification	HDCP 1.1 / 1.2
Sender Connector	Power Adapter in, RJ45, IR Emmitter connector, HDMI
Receiver Connector	Power Adapter in, RJ45, HDMI
Extender mode	Sender to Receiver by CAT5e/6/7 cable directly
Extender mode CAT5e Length	100M
Broadcaster mode	Sender to Receiver via LAN (Local Area Network), One Sender to Many Receivers (Display/TV/Projector)
Broadcaster mode Length	Unlimited within LAN
IR Control Pass Thru*	IR Emmitter (Optional Accessory) To Use Infra Red Remote Control of Video Source Equipment (connected to Sender) to Control from Receiver side
Power Adapter	DC 5V
Power Consumption	5W
Dimensions	165 x 116 x 28mm (L x W x H)
Weight	325g
Optional Accessory	IR Emmitter Cable

* 1 to many Broadcaster mode, IR Control Pass-Thru will work only with first power on PB5000 Receiver as Remote Console.

HDMI Over IP

1080p
Full HD

Unlimited Displays

Long Distance

Multi-Casting

IR Control Pass Thru

HDCP compliant

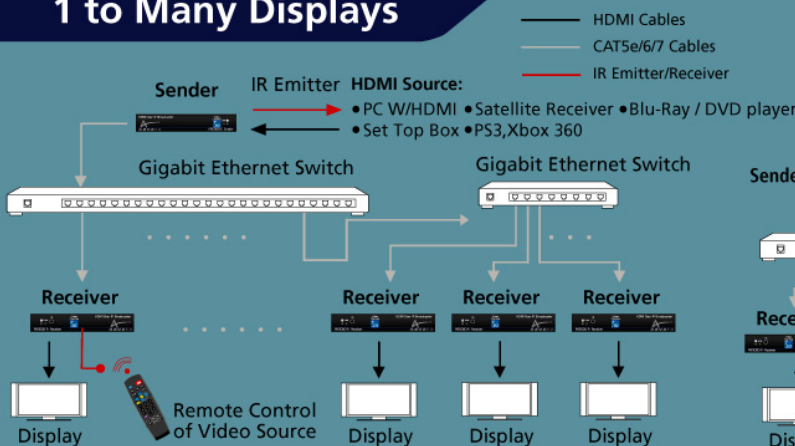
PC DVI compatible

Ultra High Quality Video

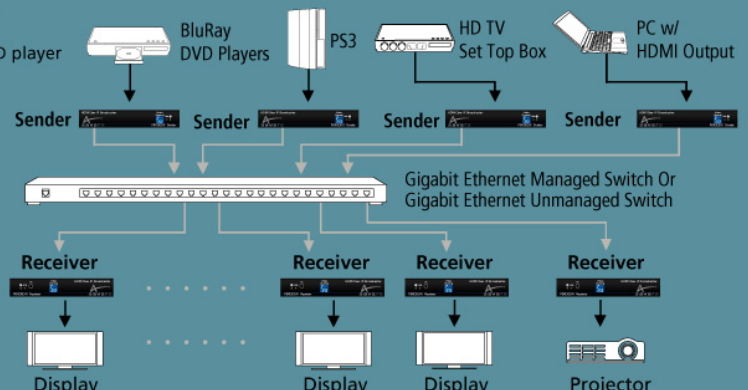
Plug and Play

Compact Size

1 to Many Displays



Multi-Casting



Installation

- 1 Make sure all PB5000 Senders and PB5000 Receivers have Correct Video Channel setting.

1 to 1	All Same
1 to Many	All Same
MultiCasting with Layer 2 switch	All Same
Video Channel Matching	Please refer to description on Video Channel Matching section.

- 2 Connect all HDMI sources (media player, PC or PS3) to each PB5000 Sender with HDMI cable.
- 3 Plug IR Emitter cable into IR Emitter port on PB5000 (only one sender applicable) for IR Pass Thru function. Place IR Emitter toward to the IR receiving window of video source.*
- 4 Connect all HDMI displays (Signage Display, LCD TV) to each PB5000 Receiver with HDMI cable.
- 5 Connect all PB5000 Senders and Receivers to Gigabit Ethernet Switch with CAT-5e/6/7 cables.
If 1 to 1 extender apply, Connect Sender and Receiver with CAT-5e/6/7 cable to it's RJ-45 directly.
- 6 Power On HDMI Displays, and plug in 5V DC power cord from adapter to the power jack of all PB5000 Receivers.
- 7 Power On Video Sources, and plug in 5V DC power cord from adapter to the power jack of all PB5000 Senders.

Notice: The PB5000 IR Pass Thru function will only work with first Power On PB5000 Receiver(first receiver handshake).

MultiCasting with Layer 2 Managed Switch

- 1 Make Sure Same Video Channel setting on all PB5000 senders and PB5000 receivers.
- 2 Config Layer 2 Managed Switch with 802.1Q VLAN setting (RJ-45 Port base Virtual Network). Please refer to details on User Manual of managed switch.

Troubleshooting

Problem	Solution
No Signal (Link LED indicator Off or Flashing)	<ul style="list-style-type: none"> • Make sure CAT5e/6/7 cables are well connected on PB5000 Sender, Receiver and/or Switch. In most of case, good quality CAT5e UTP cable will be good for LAN connection. • Check power indicator and make sure power adapter had been plugged into power wall socket and connect to all PB5000 Senders and Receivers. • If you connect PC to DVI monitor with HDMI to DVI adapter, please reset your PC video output frequency at 60Hz. • Make sure HDMI cables are well connected between PB5000 Sender and Video Source equipment, PB5000 Receiver and Display. • Make sure Video Channel settings are Correct on all PB5000 Senders and Receivers • Make sure Managed Switch 802.1Q settings are Correct, PB5000 Sender & Receiver at same VLAN group. • Always Power on PB5000 Sender first, then PB5000 Receiver for smooth handshaking.
IR Pass Thru not function	<ul style="list-style-type: none"> • Make sure IR emitter had been well plugged into IR Emitter port of PB5000 Sender. • Make sure IR emitter had pointed to the IR receiver window of HDMI video source device • Make sure Remote control of video source device has been pointed at IR receiver window of PB5000 Receiver. • If it's 1 to Many mode installation, please be sure the PB5000 receiver with IR Pass Thru function need to be always First Power On than others.

Only One Sender Allow in Each VLAN Port Group.

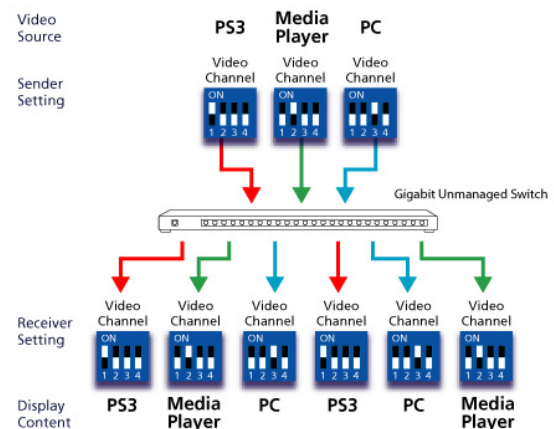
Multiple Receivers Ok in Each VLAN Port Group.

- 3 Following Standard Installation procedure to connect all senders and receivers to Layer 2 managed switch.

Video Channel Matching (Easy MultiCasting) with Unmanaged Gigabit Ethernet Switch

- 1 Setting up a unique Video Channel setting on each PB5000 Sender with video source. Make sure the setting on each sender doesn't won't be duplicated.
- 2 On Video Channel Setting, PB5000 Receivers' Video Channel selection always match that of the Senders with the video sources you want to display. Multi-Receivers with same video content output are still workable.
- 3 Following Standard Installation procedure to setup all senders and receivers to unmanaged switch.

Video Channel Matching Config Example



Notice: Number of Video Channel Sources/Senders will depend on video content, resolution and ethernet switch capacity. If video shows delay or mosaic, suggest to reduce resolution or reduce number of sender, or to have Layer 2 switch for multi-casting installation.