

Read Me First

Aavara PCE122IR HDMI & IR Over Single Coax Extender/Splitter

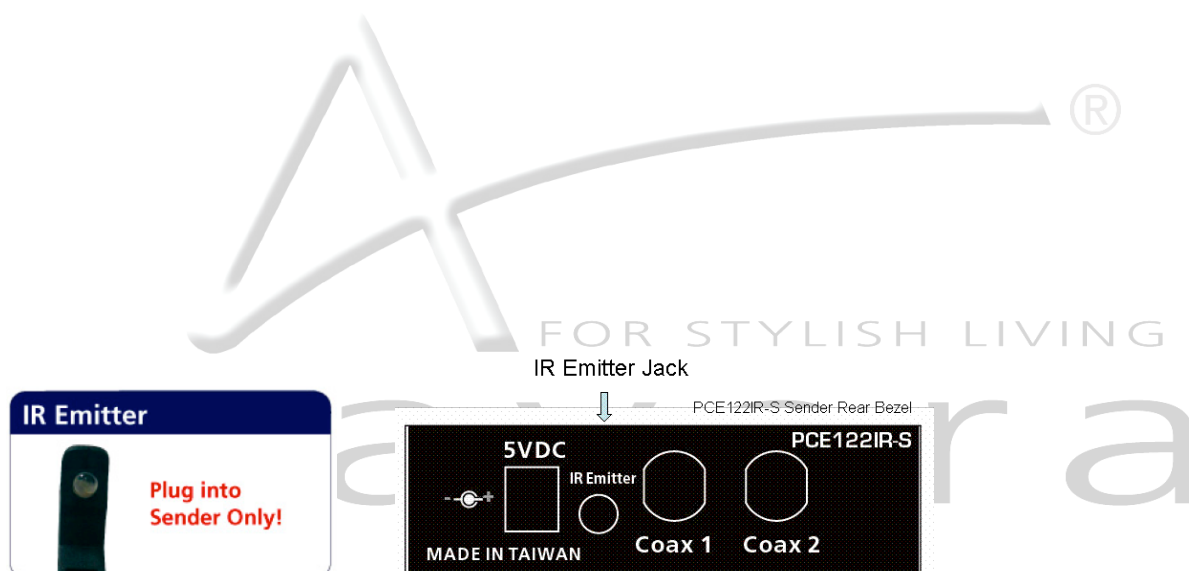
PCE122IR HDMI Over Single Coax which added 38 KHz IR Control Pass-Thru from PCE122IR-R Receiver/TV or Display to PCE122IR-S Sender/Video Source Device by using IR remote control to control Video Source Device remotely.

IR Pass-Thru Format: 38 KHz IR Signal

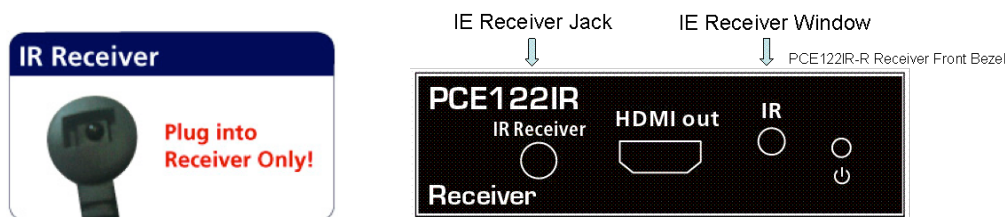
IR Emitter Cable & IR Receiver Cables are included in PCE122IR packages.

Installation:

Similar to PCE122, but required IR Emitter cable and IR Receiver cable (optional) installed before PCE122IR Sender and Receiver are power on



For PCE122IR-R Receiver, it can use on board IR Receiver Window or install IR Receiver Extend Cable (optional). If IR Receiver Cable installed, on board IR Receiver Window will be disable.



Notice!

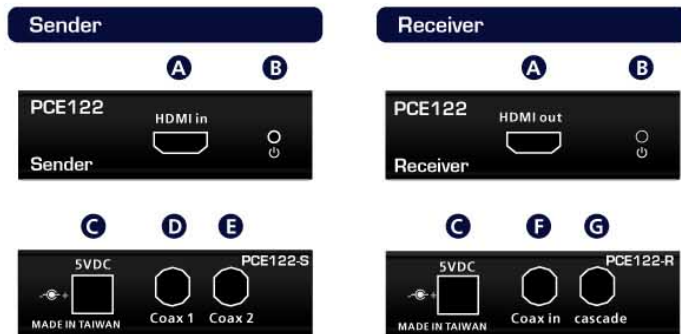
- Be sure IR Emitter had towards Video Source Device IR Receiver Window, and IR Receiver or IR Window had towards IR remote control location.
- DO NOT plug IE Emitter Cable into PCE122IR-R Receiver, it may burn the IR Emitter IC.



HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

PCE122

1080p HDMI Over Single Coax Splitter/Extender



- A** HDMI Input (Sender), HDMI Output (Receiver)
- B** Power LED Indicator
- C** 5V DC input from Power Adapter
- D** Coaxial Out 1 BNC Connector
- E** Coaxial Out 2 BNC Connector
- F** Coaxial In BNC Connector
- G** Coaxial Cascade Out BNC Connector

Specification	Sender	Receiver
Item Name	PCE122-S	PCE122-R
Input Connector	HDMI Type A x 1	Coaxial BNC x 1
Output Connector	Coaxial BNC x 2 (1 to 2 Splitter)	HDMI Type A x 1 Coax BNC x 1 (Cascade Out)
Video Bandwidth	2.97Gb/s data rates	
Input Resolution	HD Video input 720p, 1080i, 1080p PC DVI input 1280x720, 1920x1080 @ 50/60Hz standard timing	
Output Resolution	HD 720p, 1080i, 1080p	
Max. Distance	120M by High Quality Dual or Quad-Shielded RG6U coaxial cable with 3 GHz certificate Maximum 100M by 1GHz or 2GHz RG6U coaxial cable, depend on cable quality Maximum 90M by Coaxial cable with F connector connected via F to BNC adaptors	
Dimension	92.4 x 117.8 x 29 (mm)	
Weight	249g	
Operating Temperature	+0 to +40° C (+32° to 104° F)	
Operating Humidity	10% to 85% (Non-condensing)	
Storage Temperature	-20° to +60°C (+20° to +140° F)	
External Power Supply	5VDC / 2A	
Power Consumption	5 Watts(Max)	

120M
1080p

7.1Ch
Surround

1080p
Full HD

Coaxial
cable

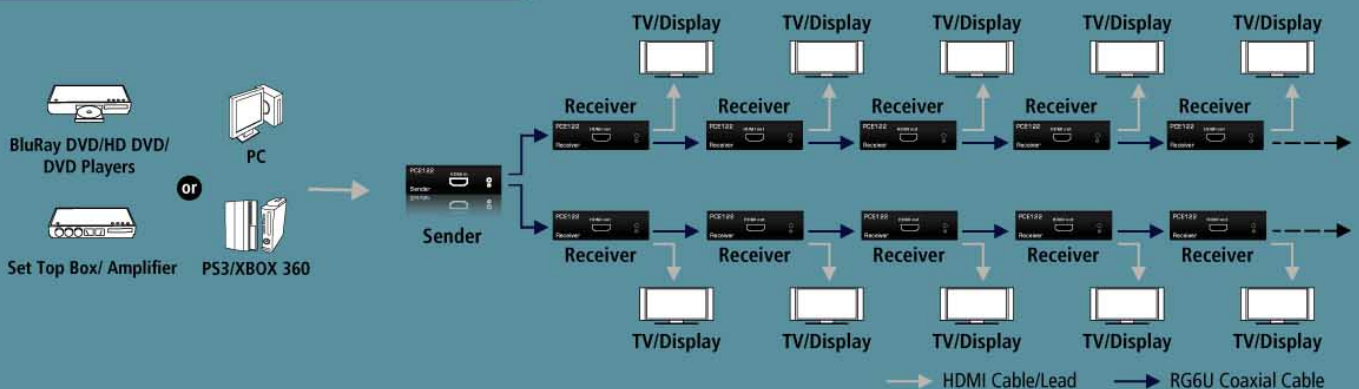
1:2
Splitter

Multi-layer
Casacade

BNC
Connector

F to BNC
Adaptors Included

1 to Many Distribution



Installation

One Sender to One Receiver/HDTV configuration:

- 1 Connect HDMI cable between HDMI output port of video source and HDMI input port of PCE122 Sender.
- 2 Connect one 75 Ohm RG6U Coax cable between Coax 1 or Coax 2 output port of PCE122 Sender and Coax in input port of PCE122 Receiver.
- 3 Connect the HDMI cable between input port of HDTV/display and the HDMI output port of PCE122 Receiver.
- 4 Connect the included 5V DC power supplies to PCE122 Sender and Receiver.
- 5 Power on the HDTV Display and PCE122 Receiver, then Video Source and PCE122 Sender.

One Sender to Multiple Receivers/HDTVs configuration:

- 1 Connect HDMI cable between HDMI output port of video source and HDMI input port of PCE122 Sender.
- 2 Connect one 75 Ohm RG6U Coax cable between Coax 1 output port of PCE122 Sender and Coax in input port of Receiver 1.
- 3 Splitter mode: Connect one 75 Ohm RG6U Coax cable between Coax 2 output port of PCE122 Sender and Coax in input port of Receiver 2.
- 4 Cascade mode: Connect one 75 Ohm RG6U Coax cable between the Coax cascade output port of Receiver 1 and Coax in input port of Receiver 3.
- 5 Repeat Step 4 to connect all Receivers with Coax cables in Cascade mode.
- 6 Connect the HDMI cables between input port of each HDTV display and the HDMI output port of each Receiver.
- 7 Connect the included 5V DC power supplies to all Sender and Receivers.
- 8 Power on the HDTV displays and PCE122 Receivers, then video source and PCE122 Sender.

Notice:

1. Maximum Distance & Number of Multi-Layer PCE122 Receiver Cascade depend on Coaxial Cable quality
2. Recommend RG6U Coaxial Cable with 3 Gbps/2.97 Gbps support, and make sure BNC connector has properly installed on Coaxial cable to secure video signal quality and transmission distance.

Troubleshooting

Problem	Solution
No Signal	<ul style="list-style-type: none"> • Check Power indicator, and make sure power adapter had been plug into wall power socket and connect to all PCE122 sender and receivers. • Make sure TV/Display/Projector can support one of PCE122 receiver HDMI output resolution 720p, 1080i and 1080p. and make sure video source output with correct resolution. • Unplug power adapter of PCE122 sender, and plug in again. Let video source, sender, receivers and displays handshaking again. • Make sure all Coaxial cables had well connected on PCE122 sender and all receivers at correct input and output BNC connectors. • Make sure all BNC connectors had been properly installed on Coaxial cables to minimum video signal quality and strength reduces. • Use high quality Coaxial cables to minimum video signal quality and strength reduces, dual or quad-shielded RG6U cables with 3GHz certificate recommended. • Reduce video resolution to 720p or 1080i, shorter coaxial cable length to stay at 1080p, or replace with higher quality RG6U cable. • Check all HDMI cables are well connected on Video source, PCE122 sender, receivers and on TV/Display/Projectors.
No Signal (PC DVI signal input)	<ul style="list-style-type: none"> • Check PC DVI input resolution and timing, use 1280x720, 1920x1080 @ 50/60Hz standard timing.
Video show abnormal	<ul style="list-style-type: none"> • Unplug power adapter of PCE122 sender, and plug in again. Let video source, sender, receivers and displays handshaking again.