

PCE122IR

HDMI Over Single Coaxial Splitter/Extender w/ IR Pass-Thru

User Guide



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Chapter 1 Introduction

Aavara® PCE122IR HDMI over Single Coaxial Extender is offering 100M HDMI 1080p video with audio transmission to simplify installations. Coaxial cable is very suitable for both in-door and out-door deploy, plus PCE122IR ultra long distance ultra high video quality transmission makes PCE122IR the perfect solution for both signage and residential AV applications. The PCE122IR also boasts built-in 1 to 2 Coaxial Splitter in Sender and One Coaxial Cascade output in Receiver which brings greater flexibility as it supports up to 5 layers cascade across 600M more HD video and audio transmission, for 10 connected TVs, displays or projectors or more. The BNC connector design also ensures a solid coaxial cable connection for vibration and shock resisting.

1.1 Features

- 100M 1080p video transmission with HD audio.
- 1 to 2 Coaxial Splitter built-in in Sender for two Receivers connectivity.
- One Coaxial Cascade output built-in in Receiver for further extension.
- 5 layers Cascadable for up to 600M video transmissions and up to 10 TV/Display/Projector connected.
 Or more is possible.
- 38KHz IR control signal pass-thru to control video source from TV/Display side.
- Support HDMI 10-bit Deep Color.
- Serial digital video transmitter for 1080i/p and 720p HD video.
- HDCP Rev1.1 specification Compliant.
- HDMI 1.3 Compliant.
- Plug-and-play. Installs in seconds.

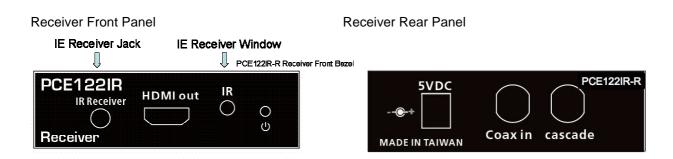
1.2 Content of Package

- (1) PCE122IR-S Sender or PCE122IR-R Receiver
- (2) IR Emitter Cable (in Sender Box) or IR Receiver Cable (in Receiver box)
- (3) 75 Ohm BNC Terminator (in Receiver Box only)
- (4) 5V DC Power Supply
- (5) Quick Start Guide

1.3 Technical Specifications

	Sender	Receiver	
Item Name	PCE122IR-S	PCE122IR-R	
Input Connector	HDMI Type A x 1	Coaxial BNC x 1	
		IR Receiver Jack x 1	
Output Connector	Coaxial BNC x 2 (1 to 2 Splitter)	HDMI Type A x 1	
	IR Emitter Jack x 1	Coaxial BNC x 1 (Cascade Out)	
Video Bandwidth	2.97Gb/s data rates		
Resolution	HD 720p, 1080i, 1080p Standard Timing		
	DVI 1920x1080@60Hz (need DVI to HDMI adapter, not included)		
	DVI 1280x720@60Hz (need DVI to HDMI adapter, not included)		
Max. Distance by Cable	1080p 100M by RG6U (3 GHz certificated)		
& Resolution			
IR Pass-Thru	38 KHz		
Dimension	92.4 x 117.8 x 29 (mm)		
Weight	300g		
Operating Temperature	+0 to +40°C (+32°to 104°F)		
Operating Humidity	10% to 85% (Non-condensing)		
Storage Temperature	-20°to +60°(+20°to +140°F)		
External Power Supply	5VDC / 2A		
Power Consumption	5 Watts(Max)		

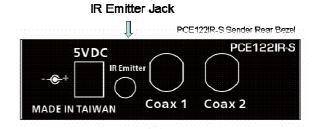
1.4 Panel Layout:



Sender Front Panel



Sender Rear Panel



1.5 IR Cable Installation





Chapter 2 Installation

One Sender to One Receiver/HDTV configuration:

- 1 Connect HDMI cable between video source's HDMI output port and HDMI input of PCE122IR-S Sender.
- 2 Connect one 75 Ohm RG6U Coax cable between Coax 1 output port of PCE122IR-S Sender and Coax in input port of PCE122IR-R Receiver.
- 3 Connect HDMI cable between input port of HDTV/display and the PCE122IR-R Receiver's HDMI output.
- 4 Plug in IR Emitter Cable into IR Emitter Jack of PCE122IR-S Sender and toward to IR Receiver Window of Video Source Device. Plug in IR Receiver Cable into IR Receiver Jack of PCE122IR-R Receiver and toward to IR remote location.
 - Notice! Be sure IR receiver not toward to any fluorescent light tube or lamp.
- 5 Connect the included 5V DC power supplies to PCE122IR Sender and Receiver.
- 6 Power on the HDTV Display and PCE122IR-R Receiver, then Video Source and PCE122IR-S Sender.

For Multiple Receivers/HDTVs configuration:

- 1 Splitter mode: Connect one 75 Ohm RG6U Coax cable between Coax 2 output port of PCE122IR-S Sender and Coax in input port of Receiver 2.
- 2 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.
- 3 Repeat Step 4 to connect all Receivers with Coax cables in Cascade mode.
- 4 Connect HDMI cables between input port of each HDTV display and each Receiver's HDMI output port.
- 5 Connect the included 5V DC power supplies to all Sender and Receivers.
- 6 Power on the HDTV displays and PCE122IR-R Receivers, then video source and PCE122IR-S Sender.

