



PU-1109-KIT 5-Play HDBaseT[™] Extender Kit (inc. PoE & 3x LAN, up to 100m)

OPERATIONS MANUAL



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Version 1.1 August 2011

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

VERSION NO.	DATE	SUMMARY OF CHANGE
RDV1	11/11/2011	Preliminary Release
RDV2	13/12/2011	Power Supply Change
v1.01	08/10/13	Amended Product Description

REVISION HISTORY





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1. INTRODUCTION

The PU-1109-KIT features 5Play HDBaseT technology. This will allow the user to distribute uncompressed HDMI, 2-Way IR, 2-Way RS-232, PoE (Power Over Ethernet) and 3 individual LAN connections over a Single CAT5e/6 cable, to lengths of up to 100m.

2. APPLICATIONS

- III Home entertainment media sharing and control
- III Lecture room display and control
- Showroom display and control
- Meeting room presentation and control
- Classroom display and control
- Any Smart AV Installation system

3. PACKAGE CONTENTS

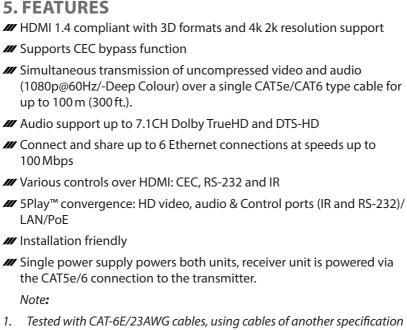
- III HDMI to CAT5e/CAT6 with LAN/PoE/IR Transmitter
- III CAT5e/CAT6 to HDMI with LAN/PoE/IR Receiver
- /// 1× IR Blaster
- /// 1× IR Receiver
- 24V DC Power Adaptor
- **III** Operation Manual

4. SYSTEM REQUIREMENTS

- Input HDMI source equipment such as DVD/Blu-ray player and output display with HDMI input.
- III RS-232 controlled device
- Ethernet equipped device







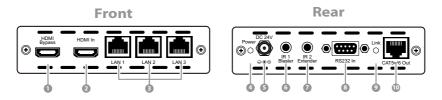
- may result in a different operating distance.
- 2. The PoE function is designed for powering compatible receiver units only—do not use with non-PoE receivers or receivers of another brand.



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6. OPERATION CONTROLS AND FUNCTIONS

6.1 Transmitter



HDMI Bypass: Connect to a HDMI TV/monitor for instant display of the HDMI input source signal.

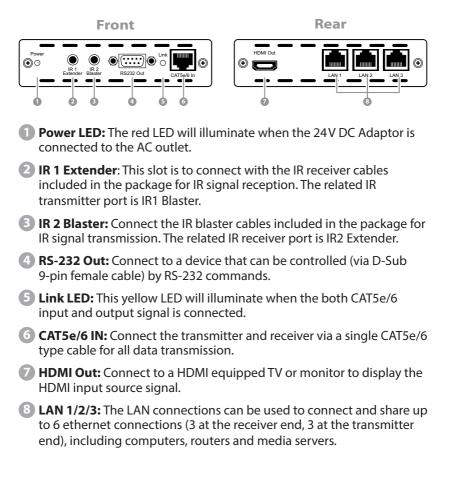
Note: When the HDMI bypass is connected, no signals will be transmitted to the receiver side. Therefore, unplug this connection after confirming that the correct image is displayed

- 2 HDMI In: Connect to the HDMI equipped source equipment such as DVD or Blu-ray player.
- LAN 1/2/3: The LAN connections can be used to connect and share up to 6 ethernet connections (3 at the receiver end, 3 at the transmitter end), including computers, routers and media servers.
- Power LED: The red LED will illuminate when the 24V DC Adaptor is connected to the AC outlet.
- **DC 24V:** This slot is where you plug the 24V DC power supply into the unit and connect the adaptor to an AC outlet.
- **IR 1 Blaster:** Connect the IR blaster cables included in the package for IR signal transmission. The related IR receiver port is IR1 Extender.
- IR 2 Extender : Connect the IR receiver cables included in the package for IR signal reception. The related IR transmitter port is IR2 Blaster.
- 8 **RS-232 In:** This slot is to connect with PC/laptop /Control Device with D-Sub 9-pin male cable for sending RS-232 commands.
- Dink LED: This yellow LED will illuminate when the both CAT5e/6 input and output signal is connected.
- CAT5e/6 Out: Connect the transmitter and receiver via a single CAT5e/6 type cable for all data transmission.





6.2 Receiver





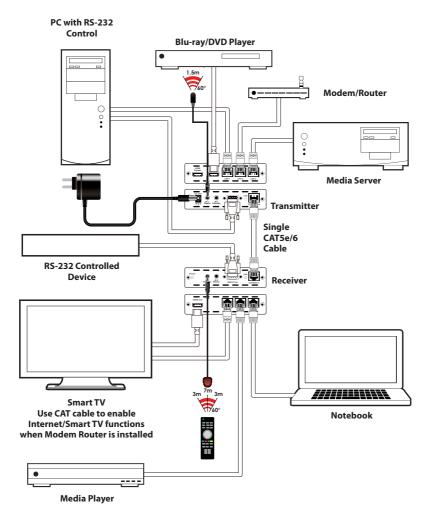
6.3 D-Sub 9 Pin Definitions

Pin	Define TX/RX		
1	N/C		
2	TxD / RxD		
3	RxD / TxD		
4	N/C		
5	GND		
6	N/C		
7	N/C		
8	N/C		
9	N/C		





7. CONNECTION DIAGRAM



Note: The LAN1, LAN2 and LAN3 connections can be used either on its own as a small network or to extend a larger network. In this example a media player, notebook computer and Smart TV in a remote zone can be connected via a single CAT cable back to a modem/router and media server in another zone with all devices connected to the ports being able to connect to each other.





8. SPECIFICATIONS

Video Bandwidth	300 MHz/9 Gbps	
Ethernet Speed	100 Mbps	
Transmitter		
Input	1×HDMI , 3×Ethernet,	
	1×RS-232, 1×IR Extender	
Output	1×CAT5e/6, 1×HDMI Bypass, 1×IR Blaster	
Receiver		
Input	1×CAT5e/6, 1×IR Extender	
Output	1×HDMI, 1×RS-232, 3×Ethernet, 1×IR Blaster	
ESD Protection	Human Body Model:	±8kV (air-gap
		discharge)
		±4kV (contact
		discharge)
IR Frequency Rate	30~50 kHz	
Power Supply	24V/1.25 A DC (US/EU Standards, CE/FCC/	
	UL certified)	
Dimensions	125mm (W)×127mm (D)×30mm (H)/Each	
Weight	Tx: 360g, Rx: 382g	
Chassis Material	Aluminum	
Colour	Black	
Power Consumption	Tx: 6W: Rx: 8W	
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)	





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