



PU-1109KIT

v1.4 HDMI over Single CAT5e/6 HDBaseT 5Play, 3 x LAN, PoE Receiver TXRX Set (up to 100m)

OPERATIONS MANUAL



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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.

REVISION HISTORY

VERSION NO.	DATE	SUMMARY OF CHANGE
RDV1	11/11/2011	Preliminary Release
RDV2	13/12/2011	Power Supply Change





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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
- III Ethernet equipped device





5. FEATURES

III HDMI 1.4 compliant with 3D formats and 4k 2k resolution support

Supports CEC bypass function

Simultaneous transmission of uncompressed video and audio (1080p@60Hz/-Deep Color) over a single CAT5e/CAT6 type cable for up to 100 m (300 ft.).

III Audio support up to 7.1CH Dolby TrueHD and DTS-HD

Connect and share up to 6 Ethernet connections at speeds up to 100 Mbps

III Various controls over HDMI: CEC, RS-232 and IR

III 5Play[™] convergence: HD video, audio & Control ports (IR and RS-232)/ LAN/PoE

III Installation friendly

Single power supply powers both units, receiver unit is powered via the CAT5e/6 connection to the transmitter.

Note:

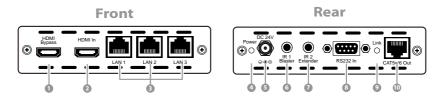
- 1. Tested with CAT-6E/23AWG cables, using cables of another specification may result in a different operating distance.
- 2. The PoE function is designed for powering compatible receiver units only—do not use with non-PoE receivers or receivers of another brand.



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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.

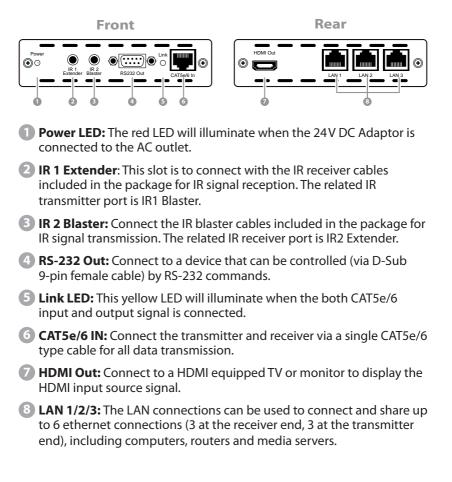
Note: When the HDMI bypass is connected, no signals will be transmitted to the receiver side. Therefore, unplug this connection after confirming that the correct image is displayed

- 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.
- 6 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.
- Uink 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





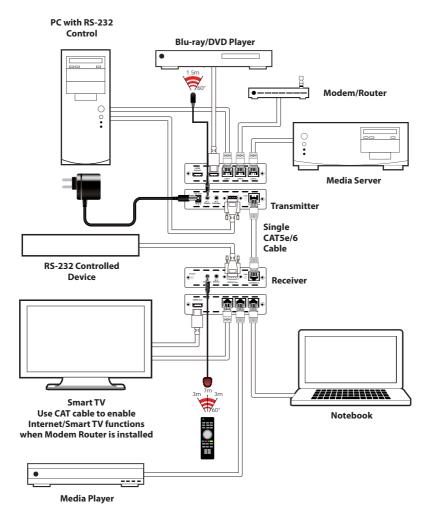
6.3 D-Sub 9 Pin Definitions

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/1.25A DC (US/EU Standards, CE/FCC/		
	UL certified)		
Dimensions	125mm (W)×127mm (D)×30mm (H)/Each		
Weight	Tx: 360g, Rx: 382g		
Chassis Material	Aluminum		
Silkscreen Color	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-con	20~90% RH (non-condensing)	





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