**HDBT** ® ᴮᴬˢᴱᵀ
5-Play™

# PU-507WPRX

**v1.4 HDMI over Single CAT5e/6/7 HDBaseT™ - PoE Wall Plate Receiver (full 5-Play™ & Single LAN up to 100m)**

//// **OPERATION 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 |
|---|---|---|
| V1.00 | 29/01/13 | First Release |

# CONTENTS

# 1. INTRODUCTION

The PU-507-WPRX Wall Plate Receiver allows uncompressed HDMI signals and IP data to be received over a Single CAT5e/6/7 cable. This solution has the added features of RS-232, LAN, IP Control, 2-way IR, and Power over Ethernet (PoE) functionality over the same CAT5e/6/7 cable. These combined HDMI and control signals can be transmitted up to lengths of 100 metres.

# 2. APPLICATIONS

/// Household entertainment sharing and control

/// Lecture room display and control

/// Showroom display and control

/// Meeting room presentation and control

/// Classroom display and control

# 3. PACKAGE CONTENTS

/// HDMI over Single CAT5e/CAT6 Receiver x 1

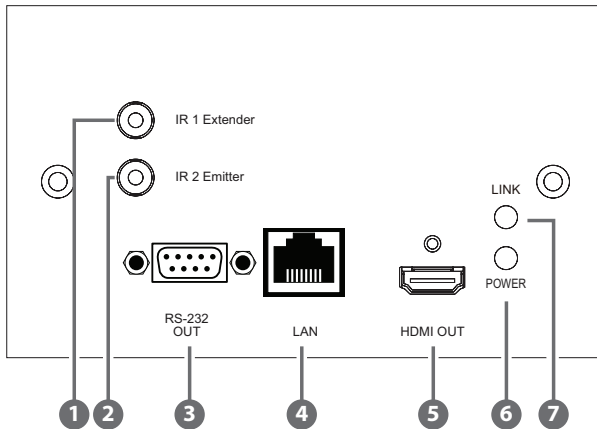/// IR Blaster x 1

/// IR Receiver x 1

/// Operation Manual

# 4. SYSTEM REQUIREMENTS

Input HDMI overCAT5e/6 transmitter with signal and output display with HDMI input jack.

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## 5. FEATURES

/// Supports all v1.3 HDMI resolutions plus 4k.

/// Supports uncompressed video/audio up to 10.2Gbps

/// Common supported resolutions: HDTV: 480p, 576p, 720p, 1080i, 1080p, 1080p24; PC: VGA, SVGA, XGA, WXGA, SXGA, UXGA, WUXGA.

/// HDMI, HDCP, & DVI compliant

/// Supports HDCP repeating and CEC functions

/// Uncompressed data transfer over single CAT cable (100m - CAT6/7; 80m - CAT5e)

/// Uncompressed video 1080p, 60Hz, 48bits

/// Audio support up to 7.1CH & Dolby TrueHD, DTS-HD

/// 5-Play™ convergence: HDMI, LAN, POE & Control (IR & RS232)

/// Supports 3D signals

# 6. OPERATION CONTROLS AND FUNCTIONS



**①** **IR 1Extender:** This slot is to connect with the IR receiver cable included in the package for IR signal receiving.

**②** **IR 2 Emitter:** This slot is to connect with the IR blaster cable included in the package for IR signal transmitting.

**③** **RS-232 OUT:** This slot is to connect with D-Sub 9-pin cable from device equipment for receiving RS-232 commands.

**④** **LAN:** Connect to an active network for LAN serving and TELNET/Web GUI control.
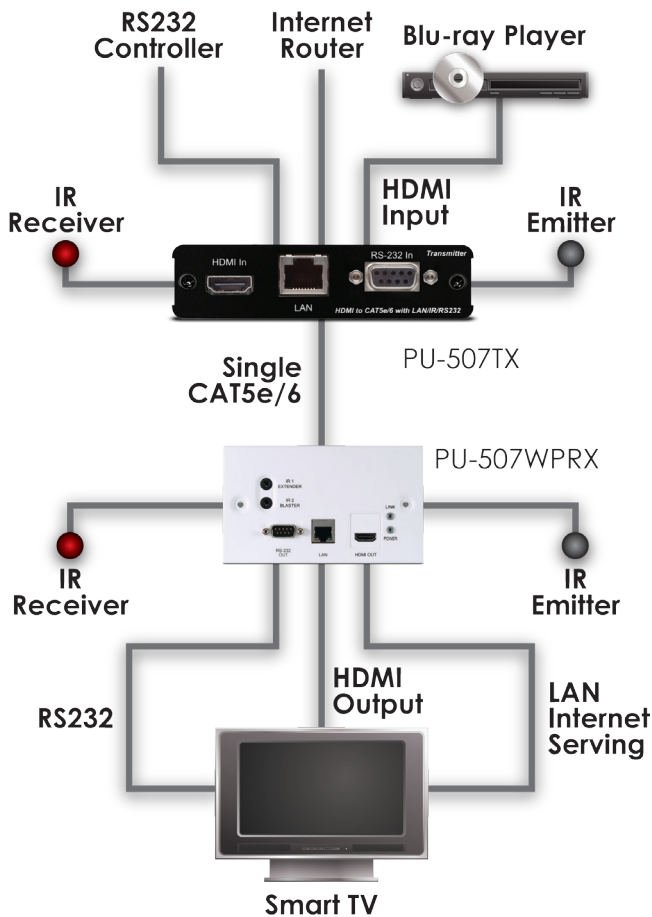
When the transmitter or any compatible LAN equipped receivers are connected to a network, this allows the network access (including internet access if available) to be shared between the transmitter and receiver. Connect any Ethernet equipped device e.g. a Smart TV or games console to the LAN port of a receiver for that device to share the network/internet access.

**⑤** **HDMI OUT:** This slot is to connect with HDMI TV/monitor for display HDMI input source signal.

**⑥** **Power LED:** This green LED will illuminate when the device is connected to a power supply.

**⑦** **LINK LED:** This yellow LED will illuminate when the both CAT5e/6 input and output signal is connected.

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# 7. 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 |

## 8. CONNECTION DIAGRAM



RS232 Controller

Internet Router

Blu-ray Player

IR Receiver

HDMI Input

IR Emitter

HDMI In

RS-232 In

Transmitter

LAN

HDMI to CAT5e/6 with LAN/IR/RS232

PU-507TX

Single CAT5e/6

PU-507WPRX

IR 1 EXTENDER

IR 2 BLASTER

RS-232 OUT

LAN

HDMI OUT

LINK

POWER

IR Receiver

IR Emitter

HDMI Output

RS232

LAN Internet Serving

Smart TV

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# 9. SPECIFICATIONS

| | |
|---|---|
| **Input** | 1×CAT5e/6, 1×IR Extender, 1xLAN |
| **Output** | 1×HDMI, 1×RS-232, 1×IR Blaster |
| **ESD Protection** | Human-body Model: |
| | ±8 kV (air-gap discharge) |
| | ±4 kV (contact discharge) |
| **IR Frequency** | 30~50 kHz |
| **Dimensions** | 146 mm(W) × 86 mm(D) × 48.5 mm(H) |
| **Weight** | 156 g |
| **Chassis Material** | Plastic |
| **Silkscreen Color** | Black/White |
| **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) |

# 10. ACRONYMS

| ACRONYM | COMPLETE TERM |
|---|---|
| **CAT5e** | Category 5 Cable |
| **CAT6** | Category 6 Cable |
| **CEC** | Consumer Electronics Control |
| **DVI** | Digital Visual Interface |
| **HDCP** | High-bandwidth Digital Content Protection |
| **HDMI** | High Definition Multimedia Interface |
| **IR** | Infrared |