

# MONOPRICE

## Blackbird™ 4K HDBase™ Wall Plate Receiver



P/N 21817

## User's Manual

# SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately unplug it from the power outlet and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near heat sources, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Ensure that power is turned off and disconnected before making any electrical connections.
- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This device has no user serviceable parts. Do not attempt to open, service, or modify this device.

## INTRODUCTION

Thank you for purchasing this HDBaseT Wall Plate Receiver! This device mounts into a double-ganged wall box and features an HDMI® video output with support for HDMI resolutions up to 4K@30Hz and DVI resolutions up to 1920x1200. It features an IR receiver "eye" on the front panel and IR in and out terminal blocks on the rear panel. It can accept HDBaseT signals from a transmitter at distances up to 229 feet (70 meters) over a single Cat6 cable. It features a 10.2Gbps bandwidth and supports the Power over Cable (PoC) and Power over Ethernet features, which allows it to be powered by a receiver over the Cat6 cable.

## FEATURES

- Provides up to 10.2Gbps bandwidth
- Supports HDMI resolutions up to 4K@30Hz, including 1080p 3D video and DVI resolutions up to 1920x1200
- Fully compliant with the HDMI version 1.4 specification
- Supports the Power over Cable (PoC) and Power over Ethernet (PoE) features, allowing it to be powered by the transmitter
- Supports bidirectional IR and RS232 control
- HDCP compliant

## CUSTOMER SERVICE

The Monoprice Customer Service department is dedicated to ensuring that your ordering, purchasing, and delivery experience is second to none. If you have any problem with your order, please give us an opportunity to make it right. You can contact a Monoprice Customer Service representative through the Live Chat link on our website [www.monoprice.com](http://www.monoprice.com) during normal business hours (Mon-Fri: 5am-7pm PT, Sat-Sun: 9am-6pm PT) or via email at [support@monoprice.com](mailto:support@monoprice.com)

## PACKAGE CONTENTS

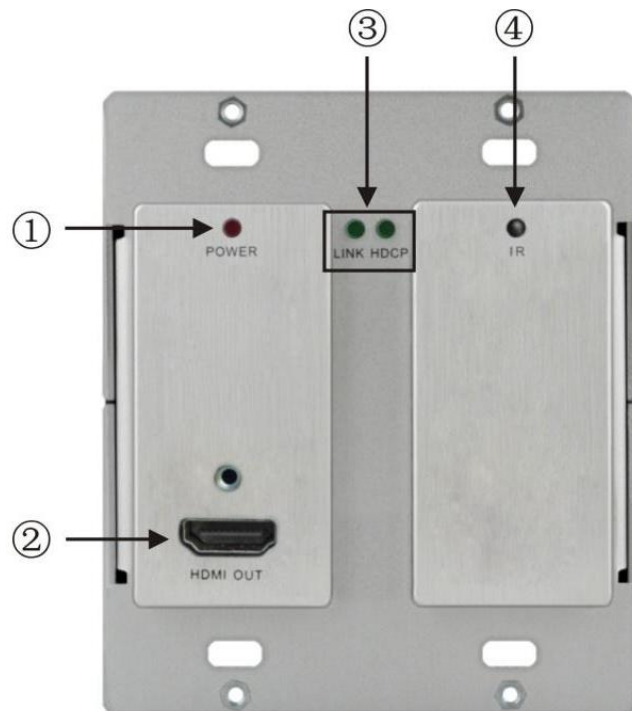
Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

- 1x Wall plate HDBaseT™ receiver
- 1x Faceplate
- 2x Faceplate screws
- 2x Mounting screws
- 2x 2-pin pluggable terminal blocks
- 2x 3-pin pluggable terminal blocks
- 1x AC power adapter (12 VDC, 1A)
- 1x User's manual

## PRODUCT OVERVIEW

### Front Panel

1. **POWER LED:** The LED illuminates red when power is applied.
2. **HDMI OUT Connector:** HDMI® port for connecting an HDMI display or projector.
3. **LINK and HDCP LED Indicators:** The LINK LED illuminates green when a valid connection exists between the transmitter and receiver. The HDCP LED illuminates green when video

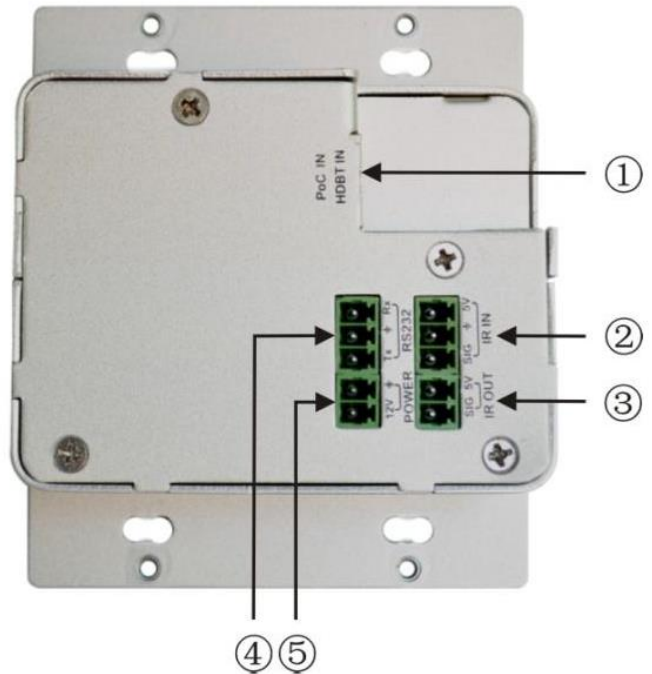


with HDCP is present. It blinks green if the video has no HDCP data and is off when there is no source signal.

4. **IR:** Built-in infrared receiving "eye".

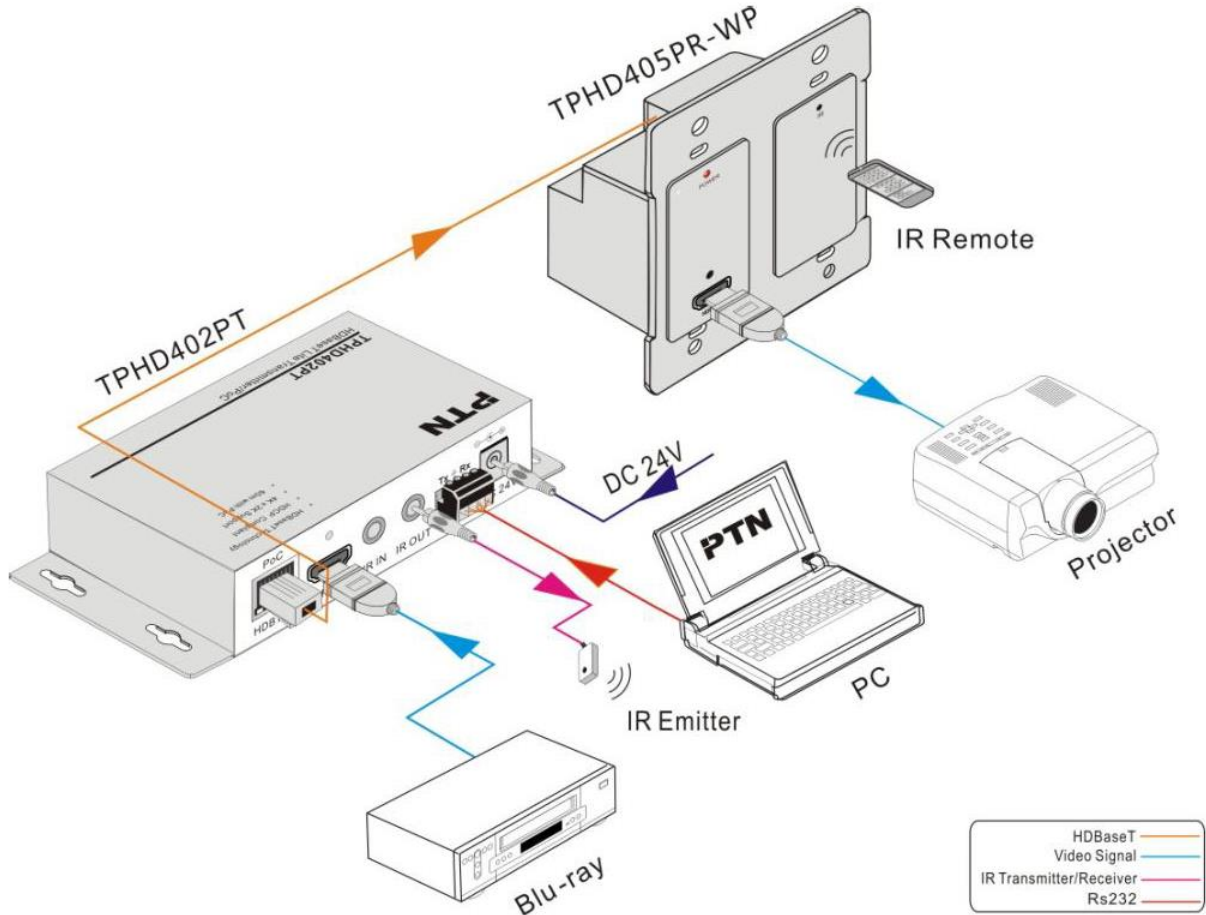
## Rear Panel

1. **HDBASET IN:** RJ45 jack for connecting a Cat6 Ethernet cable to connect to the transmitter (not included). Note that the receiver supports the PoC and PoE features, allowing it to be powered by the transmitter. It cannot provide power to the transmitter.
2. **IR IN Terminal:** 3-pin terminal block for connecting an IR receiver (not included).
3. **IR OUT Terminal:** 2-pin terminal block for connecting an IR transmitter (not included).
4. **RS232 Terminal:** 3-pin terminal block for bidirectional RS232 control.
5. **POWER Terminal:** 2-pin terminal block for connecting the included AC power adapter.



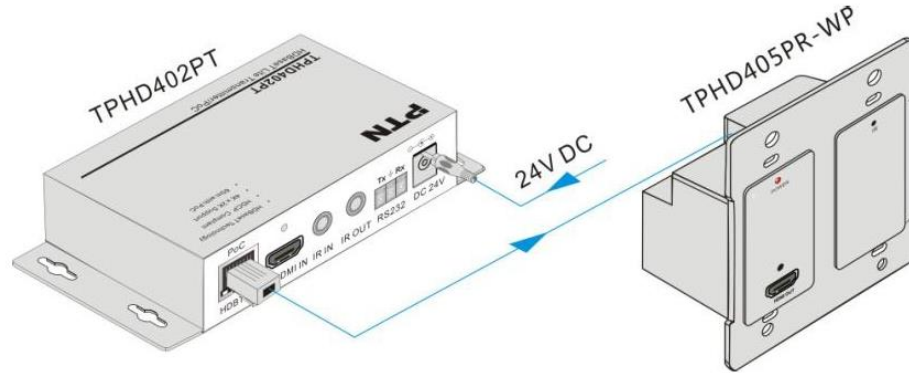
# INSTALLATION

Perform the following steps to install the Wall Plate Receiver.



1. Using a High Speed HDMI® Cable (not included), plug one end into the HDMI input on your projector or display, then plug the other end into the **HDMI OUT** port on the receiver.
2. Using a High Speed HDMI Cable (not included), plug one end into the HDMI input on the transmitter (not included), then plug the other end into the HDMI output on your video source device (e.g., Blu-ray Disc™ player).
3. (Optional) Using the included 3-pin pluggable terminal block, construct a serial cable to connect to your PC, then plug the 3-pin terminal block into either the receiver or transmitter (not included) and into the serial port on your PC or laptop.

4. Using an in-wall rated Cat6 Ethernet cable (not included), plug one end into the **HDBaseT IN** jack on the receiver, then plug the other end into the HDBaseT output jack on the transmitter (not included).
5. Perform one of the following two steps to provide power to the transmitter.
  - a. Using the included 12 VDC AC power adapter, plug one end into the **12V IN** terminal on the rear panel, then plug the adapter into a nearby AC power outlet.
  - b. Plug a 24 VDC power adapter (not included) into the **DC IN** jack on the transmitter (not included), then plug the power adapter into a nearby AC power outlet. The transmitter will provide power to the receiver over the HDBaseT cable using the Power over Cable (PoC) or Power over Ethernet (PoE) feature.



## TECHNICAL SUPPORT

Monoprice is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website [www.monoprice.com](http://www.monoprice.com) during regular business hours, 7 days a week. You can also get assistance through email by sending a message to [tech@monoprice.com](mailto:tech@monoprice.com)

## SPECIFICATIONS

Model	21817
Transmission Protocol	HDBaseT™
Maximum Transmission Distance	1080p: up to 229 feet (70 meters) 4K: up to 131 feet (40 meters)
Maximum Video Resolution	VGA: up to 1920x1200 HDMI®: up to 4K@30Hz
Maximum Bandwidth	10.2 Gbps
HDMI Version	version 1.4 with HDCP support
Power Source	12 VDC, 1A or PoC or PoE
Maximum Power Consumption	7 watts
Operating Temperature	+32 ~ +131°F (0 ~ +55°C)
Operating Humidity	10 ~ 90% RH, non-condensing
Dimensions	4.1" x 3.5" x 1.7" (104 x 89 x 44 mm)
Weight	8.5 oz. (240g)

## REGULATORY COMPLIANCE

### Notice for FCC



This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Modifying the equipment without Monoprice's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **Notice for Industry Canada**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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