

# HDBaseT 3.0 Transmitter and Receiver Kit, HDMI 4K 60 Hz (4:4:4), RS-232, IR Control, Up to 328 ft. (100 m), TAA

MODEL NUMBER: BHDBT3-TRX2



Extends the range of your uncompressed 4K video/audio, Ethernet, IR, RS-232 serial or USB signal up to 328 ft. via Cat6a cable.

## Features

### Designed with the Newest HDBaseT 3.0 Technology

This 4K video transmitter and receiver use the latest HDBaseT 3.0 technology to extend and expand essential network signals. Using a single Cat6a cable (HDBaseT3 certified) with zero latency, the BHDBT3-TRX2 extends true 4K uncompressed video and audio up to 328 feet (100 meters) with the latest HDBaseT standards. It also transmits Ethernet, RS-232 serial, USB and IR control up to 328 feet, making it ideal for conference halls, auditoriums, lecture halls, museums, exhibition rooms and anywhere else that requires high-quality transmission and an easy-to-use application.

### Transmits 4K Video with HDR and 4:4:4 Color

Using an HDBaseT3-certified Cat6a cable with no latency, the BHDBT3-TRX2 extends Ultra HD 4K resolutions up to 4096 x 2160 at 60 Hz. It supports HDR (High Dynamic Range), providing a wide range of vibrant colors with richer contrast, brighter whites and deeper blacks that pop on your 4K display. HDCP 2.3 encryption allows you to stream 4K Amazon and Netflix content with no complications. These transceivers also support uncompressed 4:4:4 chroma subsampling for top-level PC gaming or using your HDTV as a PC monitor.

### Handles Multiple Functions for Streamlined Performance

In addition to 4K video, the BHDBT3-TRX2 also extends bi-directional RS-232 serial, full-range IR remote control, Gigabit Ethernet and USB 2.0 up to 328 feet (100 meters). This allows connection of barcode scanners, Ethernet routers and a wide range of USB peripherals, among other components.

### Stable HDMI Signal Transmission

The BHDBT3-TRX2 is equipped with HDMI audio embedded/de-embedded functions, allowing you to flexibly adapt suitable audio/video combinations based on different environments. To ensure nonstop operation, a fanless fin heat sink prevents overheating and elevates the transceivers' reliability.

### Avoid Signal Disruptions with Extra-Secure Locking HDMI Connectors

Having a cable come loose accidentally can cause AV signal loss. Universal HDMI cable locks help prevent accidental disconnection and signal disruption. This is especially helpful for ensuring components stay attached in difficult-to-access installations.

### Plug-and-Play Convenience and Easy Installation

## Highlights

- Latest HDBaseT 3.0 technology allows transmission or reception of 4K AV signals
- Supports UHD resolutions up to 4K @ 60 Hz (4:4:4) with High Dynamic Range (HDR)
- HDMI audio switch allows easy audio embedding/de-embedding and audio bypass
- Easy to install on a wall using the built-in mounting brackets
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

## System Requirements

- Source device with HDMI port (Blu-ray player, laptop, PC)
- Display device(s) with HDMI port (HDTV, projector, monitor)
- HDBaseT3-certified Cat6a cable with zero latency is recommended to ensure maximum video quality

## Package Includes

- HDBaseT 3.0 transmitter
- HDBaseT 3.0 receiver
- (2) RS-232 terminal blocks
- (4) Wall-mount brackets
- (8) Foot pads
- (2) USB-B to USB-A cables
- (2) Power adapters
- (2) C13 to NEMA 5-15P power cords
- (2) C13 to BS1363 power cords
- (2) C13 to Schuko power cords
- (2) IR emitters
- (2) IR receivers
- Owner's manual
- Quick Start Guide



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The BHDBT3-TRX2 requires no software or drivers to install, making setup simple. The transmitter and receiver mount to a wall using the built-in brackets.

#### TAA-Compliant for GSA Schedule Purchases

The BHDBT3-TRX2 is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

## Specifications

| OVERVIEW                             |                                       |
|--------------------------------------|---------------------------------------|
| UPC Code                             | 037332284624                          |
| Product Type                         | Video Extender                        |
| Accessory Type                       | Extender Kit                          |
| Technology                           | Cat5/5e; Cat6; HDBaseT; HDMI; IR; USB |
| VIDEO                                |                                       |
| Video Input                          | HDMI (FEMALE)                         |
| Video Output                         | HDMI (FEMALE)                         |
| Video Ports                          | HDMI (FEMALE)                         |
| Video Ports Details                  | HDMI 2.0; HDCP 2.3                    |
| Max Supported Video Resolution       | 4096 X 2160 60HZ                      |
| Max 720P Range (ft)                  | 328                                   |
| Max 1080P Range (ft)                 | 328                                   |
| Max 1280 x 720 (720p) Range (ft)     | 328                                   |
| Max 1920 x 1080 (1080p) Range (ft)   | 328                                   |
| Max 1920 x 1200 Range (ft)           | 328                                   |
| Max 2560 x 1600 Range (ft)           | 328                                   |
| Max 3840 x 2160 (4K@30Hz) Range (ft) | 328                                   |
| Max 4096 x 2160 (4K) Range (ft)      | 328                                   |
| Transmitter Video Input              | HDMI                                  |
| Receiver/Transceiver Video Output    | HDMI                                  |
| Receiver - Number of Video Outputs   | 1                                     |
| Signal Range (ft)                    | 328                                   |
| Signal Range (m)                     | 100                                   |
| Recommended Cabling                  | N202-Series Cat6 Cables               |
| Max Supported Color Depth            | 36-bit Deep Color                     |
| HDR Support                          | Yes                                   |
| 3D Video Supported                   | Yes                                   |



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|                                           |                                                         |
|-------------------------------------------|---------------------------------------------------------|
| Chroma Sub Sampling                       | 4:4:4                                                   |
| Maximum Signal Range (ft)                 | 328                                                     |
| Maximum Signal Range (m)                  | 100                                                     |
| Maximum Signal Range Details              | 328 ft via Cat6                                         |
| <b>AUDIO</b>                              |                                                         |
| Audio Input                               | 3.5mm; HDMI                                             |
| Audio Output                              | 3.5mm; HDMI                                             |
| Audio Specification                       | Stereo Audio                                            |
| <b>INPUT</b>                              |                                                         |
| AC Power Adapter Plug(s)                  | BS 1363 UK; CEE 7/16 Schuko; NEMA 5-15P North America   |
| AC Power Adapter Input Specs (V / Hz / A) | 100-240V / 50/60Hz / 1.2A                               |
| AC Power Adapter Output Specs (V / A)     | 12V / 3A                                                |
| AC Power Adapter Cord Length (ft.)        | 6                                                       |
| AC Power Adapter Cord Length (m)          | 1.83                                                    |
| Bus Powered                               | No                                                      |
| <b>POWER</b>                              |                                                         |
| Power Source Type                         | AC Adapter with detachable power cord                   |
| AC Plug Type                              | BS1363; CEE 7/16 Schuko; NEMA 5-15P                     |
| Power Source                              | Transmitter and Receiver (Included)                     |
| Power Over Cable (PoC) Support            | No                                                      |
| AC Adapter                                | Input: 100-240V, 50/60Hz, 1.2A; Output: 12V, 3.3A, 6ft. |
| Power Consumption (Watts)                 | 6.45                                                    |
| <b>CONNECTIONS</b>                        |                                                         |
| Number of Ports                           | 8                                                       |
| Side A - Connector 1                      | HDMI (FEMALE)                                           |
| Side A - Connector 2                      | RJ45 (FEMALE)                                           |
| Side A - Connector 3                      | 3.5MM (FEMALE)                                          |
| Side A - Connector 4                      | USB B (FEMALE)                                          |
| Side B - Connector 1                      | HDMI (FEMALE)                                           |
| Side B - Connector 2                      | RJ45 (FEMALE)                                           |
| Side B - Connector 3                      | 3.5MM (FEMALE)                                          |
| Side B - Connector 4                      | USB A (FEMALE)                                          |
| Daisy-chainable / Cascadable              | No                                                      |



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| USER INTERFACE, ALERTS & CONTROLS       |                                                                                                         |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------|
| LED Indicators                          | TX & RX: x1 Green (Power); TX & RX: x1 Orange (Link); TX x1 Orange (Video In); RX x1 Orange (Video Out) |
| PHYSICAL                                |                                                                                                         |
| Color                                   | Black                                                                                                   |
| Material of Construction                | METAL                                                                                                   |
| Number of Displays                      | 1                                                                                                       |
| Form Factor/Mounting Options            | Box; Wall-mount                                                                                         |
| Rackmountable                           | No                                                                                                      |
| Receiver Unit Dimensions (hwd / in.)    | 1.13 x 5.11 x 6.54                                                                                      |
| Receiver Unit Height (in.)              | 1.13                                                                                                    |
| Receiver Unit Width (in.)               | 5.11                                                                                                    |
| Receiver Unit Depth (in.)               | 6.54                                                                                                    |
| Receiver Unit Weight (lbs.)             | 1.41                                                                                                    |
| Shipping Dimensions (hwd / in.)         | 21.26 x 4.57 x 9.17                                                                                     |
| Shipping Dimensions (hwd / cm)          | 54.00 x 11.61 x 23.29                                                                                   |
| Shipping Weight (lbs.)                  | 9.92                                                                                                    |
| Shipping Weight (kg)                    | 4.50                                                                                                    |
| Transmitter Unit Dimensions (hwd / in.) | 1.13 x 5.11 x 6.54                                                                                      |
| Transmitter Unit Weight (lbs.)          | 1.41                                                                                                    |
| Unit Dimensions (hwd / in.)             | 1.200 x 5.000 x 4.000                                                                                   |
| Unit Packaging Type                     | Box                                                                                                     |
| Unit Weight (lbs.)                      | 9.92                                                                                                    |
| Unit Weight (kg)                        | 4.50                                                                                                    |
| Housing                                 | Metal                                                                                                   |
| Mounting Details                        | Wallmount                                                                                               |
| ENVIRONMENTAL                           |                                                                                                         |
| Operating Temperature Range             | 32° to 104°F (0° to 40°C)                                                                               |
| Storage Temperature Range               | -4° to 140°F (-20° to 60°C)                                                                             |
| Relative Humidity                       | 0-80% non-condensing                                                                                    |
| Operating Humidity Range                | 0% TO 80% RH, Non-Condensing                                                                            |
| Storage Humidity Range                  | 0% TO 80% RH, Non-Condensing                                                                            |
| COMMUNICATIONS                          |                                                                                                         |
| Maximum Data Rate                       | 300 Mbps                                                                                                |



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|                                              |     |
|----------------------------------------------|-----|
| Max 1024 x 768 Range (ft)                    | 328 |
| Signal Range (ft.)                           | 328 |
| Signal Range (m)                             | 100 |
| Max 480P Range (ft)                          | 328 |
| Max 1440 x 900 Range (ft)                    | 328 |
| Max 1080i Range (ft)                         | 328 |
| Max 1920 x 1440 Range (ft)                   | 328 |
| Max 4K UHD Range (ft)                        | 328 |
| Max 480i Range (ft)                          | 328 |
| Max 640 x 480 Range (ft)                     | 328 |
| Max 800 x 600 Range (ft)                     | 328 |
| Max 1600 x 1200 Range (ft)                   | 328 |
| Max 2048 x 1536 Range (ft)                   | 328 |
| EDID Compatible                              | No  |
| IR Remote Extension Support                  | No  |
| RS-232 Serial Extension Support              | Yes |
| Consumer Electronics Control (CEC) Supported | Yes |
| USB Extension Support                        | No  |

#### FEATURES & SPECIFICATIONS

|                                   |                          |
|-----------------------------------|--------------------------|
| USB Specification                 | USB 2.0 (up to 480 Mbps) |
| Data Transfer Rate                | 300 Mbps                 |
| 10/100 Ethernet Extension Support | No                       |
| Integrated/Removable Cable        | No                       |
| MST Support                       | No                       |
| Mounting Accessory Included       | Yes                      |
| Multi-Resolution Support          | No                       |
| Built-In Equalizer                | No                       |
| HDCP Specification                | 2.3                      |
| Driver Required                   | No                       |
| Recommended Category Cable        | Cat6 / Cat 6A            |
| DIN Mountable                     | No                       |
| IR Frequency Range                | 30K-56KHz FULL RANGE     |

#### STANDARDS & COMPLIANCE

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| External Power Supply Certifications | CCC; GS; TUV; UL; RoHS; WEEE; cUL |
|--------------------------------------|-----------------------------------|



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|                                     |                                                                |
|-------------------------------------|----------------------------------------------------------------|
| Product Certifications              | NOM (Mexico)                                                   |
| Product Compliance                  | CE (Europe); FCC (USA); RoHS; Trade Agreements Act (TAA); WEEE |
| WARRANTY & SUPPORT                  |                                                                |
| Product Warranty Period (Worldwide) | 1-year limited warranty                                        |

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