

# LBC-H-T-LPB-Lite

LINK BRIDGE™ HDBASET  
HDMI TRANSMITTER WITH  
LOOPBACK VIDEO



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## **SAFETY INSTRUCTIONS AND COMPLIANCE DECLARATIONS**

PLEASE OBSERVE THE FOLLOWING SAFETY  
PRECAUTIONS

### **SURGE PROTECTION DEVICE RECOMMENDED**

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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## 1.0 PRODUCT DESCRIPTION

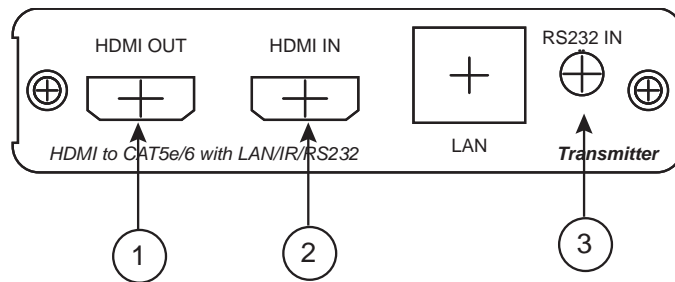
The LBC-H-T-LPB-Lite can convert a single CAT-5e/6/7 input and 2-way IR control to a single CAT-5e/6/7 output and includes a simultaneous HDMI bypass output. It supports resolutions up to 1080p Full HD, 4Kx2K timing, 3D and multi-channel digital audio formats (such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD). The HDMI output can be connected to an HDMI display or cascaded to another splitter. The CAT-5e/6/7 output can be connected to a CAT-5e/6/7 to HDMI Receiver to extend the operating distance up to 60 meters.

### Features

- Extend HDBaseT signals up to 60m meters over one CAT-5e/6 Cable and drop HDMI video
- Supports full HDTV video resolutions up to 4K2K@30Hz
- Fully uncompressed video and audio provides zero loss of quality
- Supports true DDC/EDID/HDCP transmission
- Video/audio+IR+data, over 1 CAT-5e/6 cable
- 1-way 24V/PoC remoting power at HDBaseT output port
- HDMI 1.4 and HDCP 2.2 compliant
- Supports IR control data

## 2.0 OPERATION CONTROLS AND FUNCTIONS

### 2.1 Front Panel

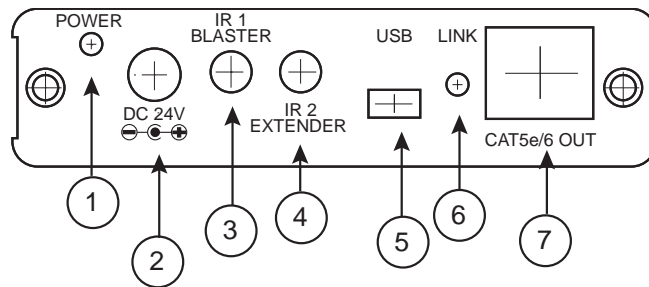


1. **HDMI OUT:** Connect to HDMI display for instant image display or cascade with another family type transmitter. The unit will detect CAT-5e/6/7 output's EDID when it obtains a 4Kx2K EDID and sends out the signal accordingly to other output ports. If CAT-5e/6/7 output is without a 4Kx2K's EDID the unit will detect all output's EDID and send out the signal that all outputs can accept.

This device obtains the last memory function therefore, the device will use the last CAT-5e/6/7 output port's EDID when CAT-5e/6/7 output port is not connected after power cycling.

2. **HDMI IN:** Connect with source equipment such as DVD/Blu ray or PS3 player.
3. **RS-232 IN:** Connect to a PC/Laptop or RS-232 enabled device (with supplied 3.5mm Phone Jack to D-Sub 9-Pin female adaptor) to transmit of RS-232 commands.

## 2.2 Rear Panel



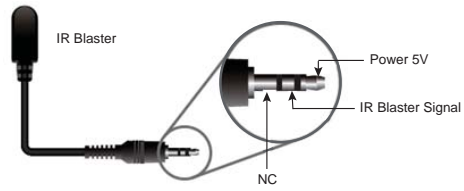
1. **POWER LED:** Once the power supply is connected the LED will illuminate.
2. **DC 24V:** Plug the 24V DC power supply into the unit and connect the adaptor to an AC outlet.
3. **IR 1 BLASTER:** Connect with the supplied IR Blaster to blast out the IR signal received from the Receiver side. Place the IR Blaster in direct line-of-sight of the equipment to be controlled.
4. **IR 2 EXTENDER:** Connect with the supplied IR Extender to receive IR signal from Transmitter side and blast out at Receiver side. Ensure that remote controller being used is within the direct line-of-sight of the IR Extender.
5. **USB:** This slot is reserved for firmware update only.
6. **LINK LED:** This LED will illuminate when both the input source and output display signals are connected through CAT cable. When it blinks regularly it states the display is NOT sending signals to Receiver but the Transmitter and Receiver are linked and if it blink irregularly it states an error has occurred.
7. **CAT-5e/6/7 OUT:** Connect this port to CAT5e/6/7 to HDMI Receiver with CAT-5e/6/7 cable to extend the signal up to 60m.

### 3.0 SERIAL CONTROL

#### 3.1 D-Sub Pin Assignment

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

### 3.2 IR Blaster Cable Pin Assignment





## **4.0 MAINTENANCE AND TROUBLESHOOTING**

### **4.1 Maintenance**

There is no operator maintenance other than keeping the units clean. However, observe the following light indicators to make sure that the unit is working properly:

### **4.2 Troubleshooting**

If the LBC-H-T-LPB-Lite units do not operate properly after installation, check for possible cable breaks, loose connections, and incorrect cable connections. If problems persist that may be fiber related, contact BCI at 1-800-214-0222 for further assistance.

## 5.0 SPECIFICATIONS

### Video/Audio

HDMI	Version 1.4 with 3D, 4Kx2K support
Video Resolution	Up to 4K2K @ 30Hz
Protocol	DDC/EDID Capable, HDCP 2:2
Video Bandwidth	300MHz / 10.2Gbps
Audio Formats	Supports up to 7.1CH & Dolby TrueHD, DTS-HD Master Audio
Audio Sampling Rate	32KHz to 192KHz
HDMI/Audio Connector	HDMI Female plug

### Data

Serial Control	RS232
Data Rate	Up to 57.6Kbaud
Connector	3.5mm Jack

### IR

Data Rate	30 - 50KHz
In/Out Connectors	3.5mm Stereo

### HDBT Transmission

Cable Type	CAT 5e/6 or higher
Number of Cables	1
Connector Distance	RJ-45/Up to 60m

### Physical

Dimensions Standalone	4.02"(W) x 4.33"(D) x 0.98"(H)
Power Consumption	+24 VDC @ 1.25 Amps (Max.)
Operating Temperature	0 to +40°C
Humidity	20 to 90% RH, Non-Condensing

## 6.0 SERVICE PROCEDURE

### 6.1 Replacement Policy

Standard products found defective on arrival (DOA) will be replaced, based on availability, within 24 to 48 hours anywhere in the U.S. Please call Customer Service at **800-214-0222** for information.

### 6.2 Return/Repair Service

The LBC-H-T-LPB-Lite System contains no user serviceable components. If you have a problem with your unit, please contact the Customer Service Department. To facilitate our return/repair processing please contact Broadata Communications, Inc. to obtain a Return Material Authorization (RMA). Please include the following information:

- Product model number
- Serial Number
- Complete description of problem
- Hardware installation description

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Torrance, CA 90505  
**1-800-214-0222**  
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(310) 530-5958 (Facsimile)  
e-mail: [CustomerService@Broadatacom.com](mailto:CustomerService@Broadatacom.com)  
Website: [www.broadatacom.com](http://www.broadatacom.com)

## **7.0 LIMITED WARRANTY**

Broaddata Communications, Inc. (BCI) warrants, for a period of one year from date of shipment, each product sold shall be free from defects in material and workmanship. BCI will correct, either by repair, or at BCI's election, by replacement, any said products that in our sole discretion prove to be defective and are returned to the manufacturing location within 30 days after such defect is ascertained. All warranties are limited to defects arising under normal use and do not include malfunctions or failure resulting from misuse, abuse, neglect, alterations, electrical power problems, usage not in accordance with product instructions, improper installation, or damage determined by BCI to have been caused by the Buyer or repair made by a third party. Limited warranties granted on products are to the initial customer end-user and are not transferable. OUR LIABILITY UNDER THIS WARRANTY SHALL IN ANY CASE BE LIMITED TO THE INVOICE VALUE OF THE PRODUCT SOLD AND BCI SHALL NOT BE LIABLE TO ANYONE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM THE USE OF ITS PRODUCTS OR THE SALE THEREOF. We make NO WARRANTY AS TO THE MERCHANTABILITY OF ANY GOODS, OR THAT THEY ARE FIT FOR ANY PARTICULAR PURPOSE OR END APPLICATION NOR DO WE MAKE ANY WARRANTY, EXPRESSED OR IMPLIED OTHER THAN AS STATED ABOVE.



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