

# TECHCONNECT HDBT

## OWNERS MANUAL



[www.visionaudiovisual.com/techconnect/tc2-hdbt](http://www.visionaudiovisual.com/techconnect/tc2-hdbt)

## DECLARATION OF CONFORMITY

Where applicable Vision products are certified and comply with all known local regulations to a 'CB Certification' standard. Vision commits to ensure all products are fully compliant with all applicable certification standards for sale in the EU and other participating countries.

The product described in this owner manual is in compliance with RoHS (EU directive 2002/95/EC), and WEEE (EU directive 2002/96/EC) standards. This product should be returned to the place of purchase at the end of its useful life for recycling.

## WARNINGS



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

All products are designed and imported into the EU by 'Vision' who is wholly owned by 'Azlan Logistics Ltd.', Registered in England Nr. 04625566 at Lion House, 4 Pioneer Business Park, Clifton Moor, York, YO30 4GH. WEEE Registration: GD0046SY



## DECLARATION OF ORIGIN

All Vision products are made in the People's Republic of China (PRC).

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## **USE ONLY DOMESTIC AC OUTLETS**

Connecting the unit to an outlet supplying a higher voltage may create a fire hazard.

## **HANDLE THE POWER CORD WITH CARE**

Do not disconnect the plug from the AC outlet by pulling the cord; always pull the plug itself. Pulling the cord may damage it. If you do not intend to use your unit for any considerable length of time, unplug the unit. Do not place furniture or other heavy objects on the cord, and try to avoid dropping heavy objects on it. Do not tie a knot in the power cord. Not only could the cord be damaged, but a short circuit could also be caused with a consequent fire hazard.

## **PLACE OF INSTALLATION**

Avoid installing this product under the following conditions:

- Moist or humid places
- Places exposed to direct sunlight or close to heating equipment
- Extremely cold locations
- Places subject to excessive vibration or dust
- Poorly ventilated places

Do not expose this product to dripping or splashing. **DO NOT PLACE OBJECTS FILLED WITH LIQUIDS ON OR NEAR THIS PRODUCT!**

## **MOVING THE UNIT**

Before moving the unit, be sure to pull out the power cord from the AC outlet and disconnect the interconnection cords with other units.

## **WARNING SIGNS**

If you detect an abnormal smell or smoke, turn this product off immediately and unplug the power cord. Contact your reseller or Vision.

## **PACKAGING**

Save all packing material. It is essential for shipping in the event the unit ever needs repair.

**IF ORIGINAL PACKAGING IS NOT USED TO RETURN THE UNIT TO THE SERVICE CENTRE, DAMAGE IN TRANSIT WILL NOT BE COVERED BY WARRANTY.**

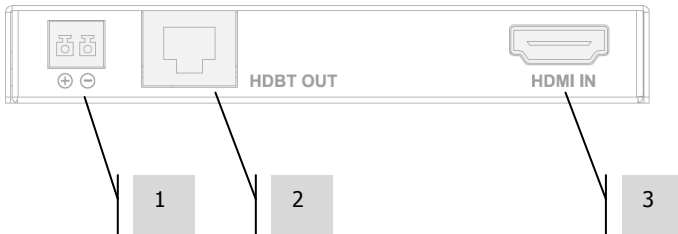
## OVERVIEW

This product sends uncompressed HDMI over CAT6 (ethernet) cables. The cable can be up to 70m long.

Vision's HDBaseT products will work with other HDBaseT approved by the HDBaseT Alliance. HDBaseT signal cannot be routed through a TCP/IP network.

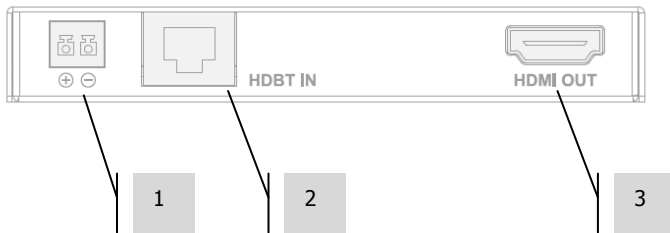
This product simply passes the EDID information through and cannot change it.

## TRANSMITTER



1. 12V 2A Power input
2. RJ45 (CAT6) Output
3. HDMI Input

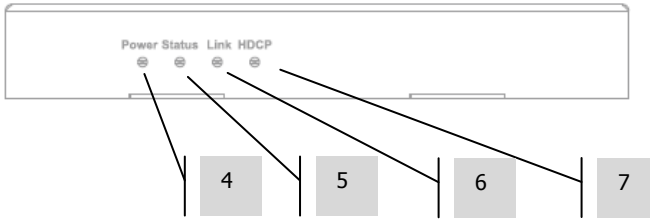
## RECEIVER



1. 12V 2A Power input
2. RJ45 (CAT6) Input
3. HDMI Output

NOTE: Power only needs to be connected at one end.  
The TC2-HDBT uses proprietary PoE to send power to the other end.

## INDICATOR LIGHTS



4. Power LED
5. Status LED – indicates transmitter and receiver are connected to each other
6. Link LED – indicates HDMI input is connected
7. HDCP LED – indicates signal is encrypted (flashing means not encrypted)

## INSTALLATION

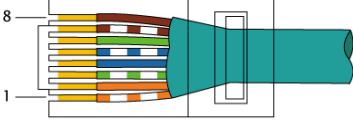
1. **CONNECT CABLES** You can use unshielded or shielded twisted pair. It is technically possible to use either CAT5e or CAT6 cable. CAT6 is superior quality and has a lower skew rate.

**NOTE:** The most common cause of problems is poor quality CAT5e/6 cable. Vision strongly recommends you use quality CAT6 cable with a low skew rate.

2. POWER ON HDBT DEVICES
3. POWER ON DISPLAY
4. POWER ON SOURCE

## TROUBLESHOOTING

If your system is not operating properly, please refer to the following information. If the problem persists, disconnect from power and contact your AV reseller immediately.

Problem	Correction
Status lights no on	<ul style="list-style-type: none"> <li>• Check CAT5e/6 cable</li> <li>• The cable should be wired to 568B standard at both ends.</li> </ul>  <p>If one end has green and orange swapped this is a cross-over cable and cannot be used.</p> <ul style="list-style-type: none"> <li>• Try unshielded cable</li> </ul>
No Power light	<ul style="list-style-type: none"> <li>• Check power connections</li> <li>• Try alternative power supply</li> </ul>
Link light not on	<ul style="list-style-type: none"> <li>• Check HDMI cable between source and transmitter</li> </ul>
Status light not on	<ul style="list-style-type: none"> <li>• Replace CAT5e/6 cable</li> </ul>
Image displayed incorrectly	<ul style="list-style-type: none"> <li>• Repeat start-up sequence</li> </ul>
Lights all on but no image	<ul style="list-style-type: none"> <li>• Check that source is turned on</li> </ul>

## **SPECIFICATIONS**

TRANSMITTER/RECEIVER DIMENSIONS: 106 x 74 x 15 mm

PRODUCT WEIGHT: 0.36 kg (per set)

CONSTRUCTION MATERIAL: Metal

COLOUR: White

TECHNICAL DETAILS:

Signaling rates: 2.97Gbits x 3

Input Video Signal: 0.5-1.0 volts p-p

Input DDC Signal: 5 volts p-p (TTL)

Max Length:

1080p 60Hz 36bpp: 60 m (CAT5e/6) 70 m (CAT6a/7)

1080p 60Hz 48bpp: 35 m (CAT5e/6) 40 m (CAT6a/7)

1080p 60Hz 3D: 35 m (CAT5e/6) 40 m (CAT6a/7)

4K 30Hz 24bpp: 35 m (CAT5e/6) 40 m (CAT6a/7)

HDMI Maximum Resolution: 3840 x 2160 ("4k")

HDMI Version: 1.4 (3D)

Operating temperature range: -5 to +35°C (-41 to +95 °F)

Operating humidity range: 5 to 90 % RH (no condensation)

Power Consumption: 12 Watts (max.)

INPUTS:

1 x HDMI (type A)

OUTPUTS:

1 x HDMI (type A)

POWER SUPPLY: 100-240v 50/60Hz AC External Power Supply – integrated transformer/plug type. DC Output 12V 2A, DC Cable 1.8m. Transformer dimensions: 81 x 52 x 38mm.

COMPLIANCES: RoHS, WEEE, CE/EMC, C-TICK, FCC.

## **ACCESSORIES**

1 x Pair of mounting ears

## **WARRANTY**

This product comes with a 2-year return to base warranty, effective from the date of purchase. This warranty applies only to the original purchaser and is not transferable. For the avoidance of doubt, this will be taken from the information held by the appointed national distributor at the point of sale. If the product is DOA (dead on arrival), you have 21 days from purchase date to notify the national distributor via your AV reseller. The liability of the manufacturer and its appointed service company is limited to the cost of repair and/or replacement of the faulty unit under warranty, except for death or injury (EU85/374/EEC). This warranty protects you against the following:

- Failure of any components, including the power supply.
- Damage when the product is first removed from its packaging if reported within 24 hours of purchase.

If you find you do have a problem with this product, you should contact the AV reseller you purchased this product from. The original purchaser is responsible for shipment of the product to the manufacturer's appointed service centre for repair.

We will endeavour to return repaired units within 5 working days, however this may not always be possible, in which case it will be returned as soon as practicably possible. In line with our WEEE commitments, the manufacturer endeavours to replace the faulty parts of the product rather than replacing the whole unit. This warranty does not protect this product against faults caused by abuse, misuse, incorrect installation, unstable or faulty power input, which might be caused by ignoring the guidelines set out in this manual.

*LEGAL DISCLAIMER: Because we are committed to improving our products, the details above may change without prior warning. This User Manual is published without warranty and any improvements or changes to the User Manual necessitated by typographical errors, inaccuracies of current information, or improvements to programs and/or equipment, may be made at any time and without notice. Such changes will be incorporated into new editions of the User Manual.*