

TECHCONNECT TC-HDMIW30

OWNERS MANUAL



www.visionaudiovisual.com/techconnect/tc-hdmiw30/

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: 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).

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.

SPECIAL WARNINGS

Never use this product near an aircraft or medical facility. It can cause interference.

Use of product in the following locations may result in abnormal video and audio output:

- Product installed in the walls made of concrete
- Product situated near refrigerator. Microwave oven, or other metal items
- A cluttered room where the wireless signals may be blocked

This product has been tested and manufactured to comply with each country's safety rules, however there is no guarantee that interference will not occur in some scenarios. If interference happens, adjust distance between transmitter and receiver. Optimal range between transmitter and receiver is between 2 and 7 meters line of sight.

This product may interfere 5GHz wireless devices. If interference occurs configure your 5GHz router to 2.4 GHz band only.

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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. This equipment generates, uses and can radiate radio frequency energy and may in extreme cases cause harmful interference to radio communications. If this happens the user should try:

- Relocating the receiving antenna
- Increasing the separation between the equipment and receiver
- Connect the equipment to a different power circuit.

RADIATION EXPOSURE STATEMENT:

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

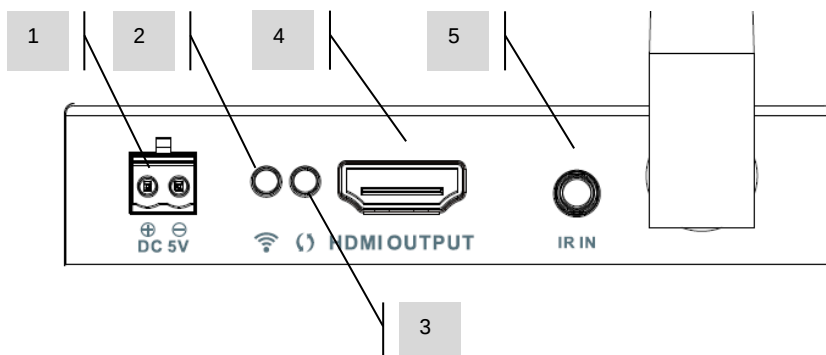
TRANSMITTER ("Tx")

1. HDMI input
2. IR Output (IR blaster plugs in here, allows source remote control to be used at distant display)
3. **BLUE** Power indicator
4. Micro-USB Power 5V2A (10w minimum)
5. **RED** Data transmitter indicator
 - a. slow flashing = performing handshake
 - b. fast flashing = transmitting data
 - c. on all the time = error



RECEIVER ("Rx")

1. Phoenix connector power input
2. **GREEN** Link indicator
 - a. solid = good connection with Tx
 - b. off = poor or no connection with Tx
3. **RED** Data transmitter indicator
 - a. slow flashing = performing handshake
 - b. fast flashing = transmitting data
 - c. on all the time = error
4. HDMI output
5. IR Input (IR receiver plugs in here)



INSTALLATION NOTES

1. NORMALLY POWER FROM HDMI WILL BE SUCCICIENT TO POWER TX
The Tx needs 500-1000 milli-amps (mA) to operate. Laptops are only obliged to provide 55mA through the HDMI port but they often provide more.
2. IF NOT USE USB CABLE TO GET SUPPLEMENTARY POWER FROM A USB PORT
Use USB cable provided. It WILL NOT work with cheap USB cables
3. IF THAT'S STILL NOT ENOUGH AN EXTERNAL POWER SUPPLY IS INCLUDED.

DISPLAY SLEEP

The Rx will stop outputting HDMI if no source is present for 10 minutes. This allows the display to go to sleep when the source is off.

FREQUENCY SPECTRUM

This product uses 5GHz WIFI channels so it can be affected by outside interference in the same way as any wifi device.

IR PASSBACK

If using a source device which has a remote control, this product allows the remote to be pointed at the display in the remote location. The IR signal is relayed from the Rx to the Tx to the source device.

To make this happen the IR blaster and receiver cables must be used.

- The diode on the blaster must be as close as possible to the source IR receiver.
- The diode on the receiver must be in line-of-sight of the remote control.

NOT WORKING?

1. Check USB cable powering Tx. Cheap USB cables will not provide enough power.
2. The computer is set to duplicate or extend the desktop (Control Panel\Appearance and Personalisation\Display\Screen Resolution)
3. Try other cables between the source and Tx
4. EDID handshakes and HDCP key authentication can create HDMI issues. Try rebooting all equipment to reset.
5. Check the wifi spectrum with a tool such as <https://inssider.en.softonic.com/>

SPECIFICATIONS

TRANSMITTER DIMENSIONS: 87 x 40 x 17 mm / 3.4" x 1.6" x .67" (length x width x height)

RECEIVER DIMENSIONS: 97 x 79 x 21 mm / 3.8" x 3.1" x 0.8" (length x width x height)

PACKAGED DIMENSIONS: 200 x 150 x 80 mm / 7.9" x 5.9" x 3.1" (length x width x height)

PRODUCT WEIGHT:

Tx: 300 g / 0.06 lbs

Rx: 220 g / 0.49 lbs

PACKAGED WEIGHT: 650 g / 1.43 lbs

CONSTRUCTION MATERIAL: Tx Plastic / Rx Metal

COLOUR: White

TECHNICAL DETAILS:

Maximum Video Format Supported: 1920×1080 / 1080P @ 60Hz

Compression: H.264

Video: HDMI 1.3 with HDCP 1.2

Max transfer rate: 10.2 Gbps

TMDS Signal: 0.7~1.5Vp p

DDC Signal: 5Vp p

Audio: Stereo

IR Passback: 20-60KHz

Max Input and Output cable length: up to 5m (16.4 feet)

Electrostatic Protection: Contact and air discharge level 3 IEC 61000-4-2

Operating Temperature Range: 0-40°C

Operating Humidity Range: < 80 % RH (no condensation)

MTBF (Mean Time Between Failures): > 30,000 hours

Transmitter Power Consumption: 3 watts

Receiver Power Consumption: 5 watts

Latency: < 20 ms

Maximum distance: 30 m (98 feet)

Encryption: 128 bit AES

TRANSMITTER CONNECTIVITY:

1 x HDMI socket – gold-plated input

1 x DC power – Micro USB-B for supplementary power if required

1 x 3.5mm Minijack socket – for IR blaster

RECEIVER CONNECTIVITY:

1 x HDMI (type A) output

1 x DC Power – phoenix connector

1 x 3.5mm Minijack socket – for IR receiver

POWER SUPPLY: 100-240v AC 50/60Hz 5 volt / 2 amp 10 watt. USB-A socket. DC tail length:

1.8 m / 5.9 ft

Transformer integrated into plug. Includes interchangeable plugs: UK/EU/US/AU. Transformer

dimensions: 66 x 43 x 32 mm / 2.6" x 1.7" x 1.3"

ACCESSORIES INCLUDED:

Power for Tx:

1 x USB-A to Micro -USB-B cable, white, length: 450 mm / 18"

1 x USB-A to Micro -USB-B cable, white, length: 130 mm / 5.1"

Source Connectivity:

1 x HDMI cable, white, length: 130 mm / 5.1"

1 x Mini DP to HDMI cable, white, length: 200 mm / 7.9"

IR Connectivity:

1 x IR Blaster cable, black, length: 1 m / 3.3 ft

1 x IR Receiver cable, black, length: 1 m / 3.3 ft

WARRANTY: Lifetime return-to-base

2 years onsite (UK only)

COMPLIANCES: RoHS, WEEE, CE/Tx, CE/Rx, CAC/Tx, CAC/Rx, FCC/Tx, FCC/Rx, RCM-POC, RCM-SDOC

ORDER PART CODE: TC-HDMIW30 [SAP: 4360679]

LIFETIME RETURN-TO-BASE WARRANTY

This product comes with a lifetime return to base warranty. If you have a problem you are required to provide a DETAILED DESCRIPTION of the fault.

Some Vision products are very technical and require troubleshooting all elements of the installation as it may not be the Vision product at fault. Because of this the manufacturer may refuse to replace the item if an adequate description is not provided.

- This warranty applies only to the original purchaser and is not transferable.
- This warranty protects you against the following:
 - o Failure of any components, including the power supply.
 - o Damage when the product is first removed from its packaging if reported within 24 hours of purchase.
- 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 original purchaser is responsible for shipment of the product to the Vision's appointed service centre.
- The liability of Vision is limited to the cost of replacement of the faulty unit under warranty except for death or injury (EU85/374/EEC).
- If the product is end of line (EOL) the Vision will provide a credit instead of replacement.
- This warranty does not protect this product against faults caused by abuse, misuse, incorrect installation, unstable or faulty power input, or modification.

Vision aims to send a replacement item within 5 working days however this may not always be possible, in which case it will be sent as soon as practicably possible. UK End users and resellers can request support at <http://www.visionaudiovisual.com/support>

2-YEAR ONSITE WARRANTY (UK ONLY)

The manufacturer provides an onsite warranty for the first two years taken from date of sale.

This service can be requested at the url above and is provided at the manufacturer's discretion.

- This service is only provided for products which are difficult for an end user to get at and replace.
- The manufacturer will not provide the onsite service if
 - o The reseller or end user has been abusive
 - o The user has is taking unfair advantage of this service
- The manufacturer will pre-qualify the visit to ensure the fault relates to the Vision product.

The engineer visits are timed to ensure you are onsite and the room is accessible. A revisit WILL NOT be provided if access to the room is not provided at the arranged time. Engineers will wait 15 minutes only.

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.

This product can only be used indoors. Since the antenna type is transmitted and received, only PCB antenna and PIFA antenna are allowed.

FCC STATEMENT :

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.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.