

# **TECHCONNECT TC2-HDMIW7**

## **OWNERS MANUAL**




[www.visionaudiovisual.com/techconnect/tc2-hdmiw7](http://www.visionaudiovisual.com/techconnect/tc2-hdmiw7)

## 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).

## **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.**

## **TRADEMARK**

HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks of HDMI Licensing LLC.

## **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:**

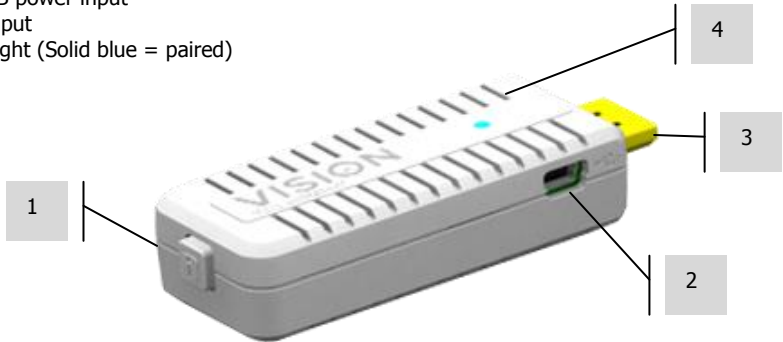
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

## INTRODUCTION

This product transmits uncompressed 1080p (60 Hz) video and audio content to a display wirelessly. It uses 4.9 GHz~ 5.9 GHz frequencies and it adjusts frequency automatically to avoid interference. It has built-in Omni-directional antennas and transmits up to 7 meters (20 feet) LOS (Line of sight) with no latency.

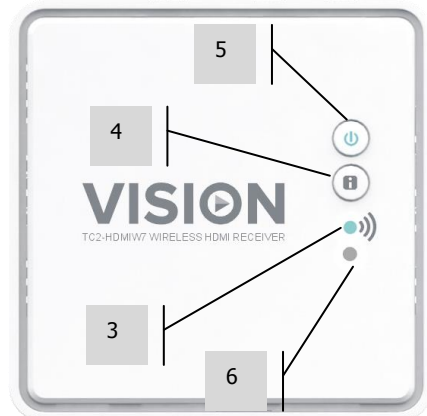
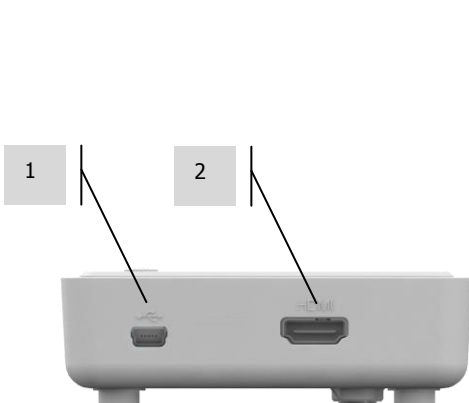
## TRANSMITTER ("Tx")

1. Pairing Button (for use on other versions of this product. Disabled on this device)
2. Mini-USB power input
3. HDMI input
4. Status light (Solid blue = paired)



## RECEIVER ("Rx")

1. Mini-USB power input
2. HDMI output
3. Status light (Solid blue = paired)
4. INFO button (press to show onscreen diagnostics information. Press again to turn off)
5. Power Button (blue when on, red when in standby)
6. Source LED (not used on this version of product except for diagnostics)



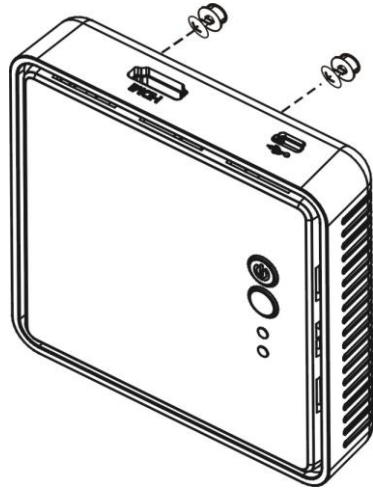
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## WALL MOUNTING

The Rx comes with screws to mount it to the wall.

### DRY WALL INSTRUCTIONS:

1. DRILL 2 X HOLES IN WALL 47MM APART
2. INSERT PLASTIC RAWL PLUGS INTO HOLES
3. INSERT SCREWS INTO PLUGS.  
LEAVE HEADS PROTRUDING
4. HOOK RX INTO PLACE



## **INSTALLATION**

### **Connecting Rx**

1. PLUG IN TO POWER
2. CONNECT TO DISPLAY with included HDMI cable
3. TURN DISPLAY ON and select correct input

### **Connecting Tx**

1. PLUG TRANSMITTER IN TO SOURCE DEVICE
2. IF BLUE LIGHT ON TX DOES NOT START FLASHING CONNECT POWER
  - a. If using with a PC connect short USB cable to a USB port on computer.
  - b. If the Blue light on the Tx still does not light up, connect to mains power adaptor

NOTE: The Tx needs 1000 milli-amps (mA) of power to operate. Laptops are only obliged to provide 55mA through the HDMI port but they often provide more, so the HDMI port will sometimes power the dongle. If not a USB cable is included to get supplementary power from a USB port. If that's still not enough an external power supply is included.

When the Tx is powered on the Rx will automatically come out of standby. If the transmitter is powered off the receiver will switch to Standby after 10 minutes automatically.

## **OPERATION**

The Tx and Rx can be powered on in any order. As soon as they are both on the blue light will flash for 15-20 seconds while the link is established, then it will stay on.

If operation is normal the power light and INFO light will be solid blue.

## **NOT WORKING?**

If you don't have an image ensure:

1. The correct input is selected on your display device. Even when there is no link an on screen display will be output from the receiver.
2. The computer is set to duplicate or extend the desktop (Control Panel\Appearance and Personalisation\Display\Screen Resolution)

## INFO

Press INFO button on Rx to see on screen display:

- Signal Quality
- Source (relates to other versions of product)
- Channel
- Resolution

## STATUS INDICATORS

		<b>Rx Power LED</b>	<b>Rx Status LED</b>	<b>Rx OSD Display</b>
<b>Standby</b>	Power saving	Solid Red	off	
<b>Boot up</b>	15~20 seconds for system boot up.	Flashing Blue	Flashing	
<b>Searching available channels</b>	If system can't establish link over 80s after initialization.	Flashing Blue	Flashing	
<b>Wireless linked Mode</b>	No input from selected source	Solid Blue	Flashing (Quickly)	
	Video format not recognized	Solid Blue	Flashing (Slowly)	
	Video format recognized	Solid Blue	Solid Blue	-

NOTE 1: If link does not establish the transmitter may be out of range. Adjust distance between Tx and Rx. The maximum video transmission range for 1080p content is up to 7m (20 feet) in line of sight (LOS). The minimum range is 2m (6.5 feet).



NOTE 3: If no video displayed and on screen display says "Not Supported Format" adjust resolution and frame rate on source device.

## SUPPORTED RESOLUTIONS

Supported Resolutions	Resolution
640x480p @ 59.94 / 60Hz	480p
720x480p @ 59.94Hz	
720x480p @ 60Hz	
720x576p @ 50Hz	576p
1280x720p @ 50Hz	720p
1280x720p @ 59.94 / 60Hz	
1920x1080i @ 50Hz	1080i
1920x1080i @ 59.94 / 60Hz	
1920x1080p @ 50Hz	1080p / 60
1920x1080p @ 59.94 / 60Hz	
1920x1080p @ 23.98 / 24Hz	1080p / 24
1920x1080p @ 25Hz	
1920x1080p @ 29.97 / 30Hz	
640x480 @ 59.94 / 72.809Hz (DVi only)	VGA
800x600 @ 60.317 / 72.188Hz (DVi only)	SVGA
1024x768 @ 60 / 70.069Hz (DVi only)	XGA
1280x768 @ 60 Hz (DVi only)	WXGA
1280x1024 @ 60 Hz (DVi only)	SXGA
1600x1200 @ 60 Hz (DVi only)	UXGA

If Tx LED continues to flash slower than "no signal" mode), and there is no video or video is poor, then the resolution is not supported.

<b>Supported Mandatory CEA 3D Video Format Timings</b>
1280x720p @ 50Hz Top-and-Bottom
1280x720p @ 50Hz Frame packing
1280x720p @ 59.94 / 60Hz Top-and-Bottom
1280x720p @ 59.94 / 60Hz Frame packing
1920x1080i @ 50Hz Side-by-Side (Half)
1920x1080i @ 59.94 / 60Hz Side-by-Side (Half)
1920x1080p @ 23.98 / 24Hz Top-and-Bottom
1920x1080p @ 23.98 / 24Hz Frame packing

If the RX status LED continues to flash slower than “no signal” mode or on screen display shows



check if display supports 3D format. Try switching the 3D video format on the source.






### **SUPPORTED AUDIO BIT RATES**


- Digital Audio from HDMI inputs: Up to 6Mbit/s bit-rate
- Supports AC3 and DTS
- Supports 2-channel PCM audio: 16~24 bits audio sample with 32~96KHz sampling rate

<b>2-channel PCM</b>	<b>32KHz</b>	<b>44.1KHz</b>	<b>48KHz</b>	<b>96KHz</b>
16 bits	YES	YES	YES	YES
24 bits	YES	YES	YES	YES

## TROUBLESHOOTING

If your system is not operating properly, please refer to the following information.

Problem	Correction
Power indicators not lighting up	<ul style="list-style-type: none"> <li>• Check if the power plugs of transmitter/receiver are properly inserted into a functioning power outlet.</li> </ul>
No video displayed on display	<p><b>First steps</b></p> <ul style="list-style-type: none"> <li>• Check the HDMI connection on the Tx</li> <li>• Check the HDMI cable on the RX</li> <li>• Select the HDMI as input source on source</li> <li>• Check the POWER and INFO lights on Rx</li> </ul> <p><b>Power LED flashing blue</b></p> <p>OSD displayed  (4 levels looping)</p> <ul style="list-style-type: none"> <li>• Ensure the transmission range is correct.</li> </ul> <p><b>POWER LED solid blue + slow flashing SOURCE LED</b></p> <p>OSD displayed  </p> <ul style="list-style-type: none"> <li>• Check video resolution and frame rate on source and adjust.</li> <li>• Connect source directly to display to check it works.</li> </ul> <p><b>POWER LED solid blue + STATUS LED flashing quickly</b></p> <p>OSD displayed  </p> <ul style="list-style-type: none"> <li>• Tx is plugged in to source device properly and powered on.</li> <li>• Check display setting for your PC have been set to clone mode, Projector out mode or dual display mode to enable external display.</li> </ul>

<p>Poor image quality or intermittent video</p>	<ul style="list-style-type: none"> <li>• Check video resolution on source device is compatible</li> <li>• Ensure the transmission distance is less than 7m (20 feet) line of sight</li> </ul>
<p>No audio</p>	<ul style="list-style-type: none"> <li>• Check audio system is not muted and correct input is selected</li> <li>• Check PC audio settings to ensure output is set to HDMI out</li> <li>• Check PC audio volume</li> <li>• Ensure bit rate of audio from the source device can be supported</li> </ul>
<p>No audio and/or video when PC resuming from sleep.</p>	<ul style="list-style-type: none"> <li>• Try re-connecting the Tx</li> <li>• Reboot Tx to re-synchronize the display setting</li> <li>• Please try to reboot your PC (or laptop)</li> </ul>
<p>No 3D video output</p>	<p><b>OSD displayed :</b></p>  <ul style="list-style-type: none"> <li>• Check the display supports 3D</li> <li>• If Rx is connected to AV Receiver check it supports 3D</li> <li>• Check the video output setting of Source</li> <li>• 3D video format not supported. Switch 3D video format to HDMI 1.4a mandatory 3D format.</li> </ul>

## **SPECIFICATIONS**

TRANSMITTER DIMENSIONS: 83 x 30 x 17 mm / 3.3" x 1.2" x .67" (length x width x height)

RECEIVER DIMENSIONS: 95 x 95 x 32 mm / 3.7" x 3.7" x 1.3" (length x width x height)

PRODUCT WEIGHT: 300 g / .66 lbs (set)

CONSTRUCTION MATERIAL: Plastic

COLOUR: White

TECHNICAL DETAILS:

Maximum Video Format Supported: 1920x1200 / 1080P @ 60Hz 3D

Video: HDMI 1.3 with HDCP 1.2

Data transfer rate 40 Mhz channel: 3Gbps (1080P @ 60Hz)

Data transfer rate 20 Mhz channel: 1.5Gbps (1080P @ 30Hz)

Audio: Up to 6 Mbps AC3 and DTS, 2 Channel PCM @ 24 bits up to 96kHz

Operating Temperature Range: 0-40°C

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

Transmitter Power Consumption: 7.5 watts

Receiver Power Consumption: 7.5 watts

Latency: < 1ms

Maximum distance: 7 m (23 feet)

Encryption: 128 bit AES

TRANSMITTER CONNECTIVITY:

1 x HDMI (type A) gold-plated input

1 x DC power (Mini USB-B for supplementary power if required)

RECEIVER CONNECTIVITY:

1 x HDMI (type A) output

1 x DC Power (Mini USB-B)

2 x POWER SUPPLIES: 100-240v AC 50/60Hz 5 volt / 2 amp 10 watt. USB-A socket.

Transformer integrated into plug. Includes interchangeable plugs: UK/EU/US/AU. Transformer dimensions: 64 x 41 x 33 mm / 2.5" x 1.57" x 1.3"

ACCESSORIES INCLUDED:

1 x USB-A to mini-USB-B cable 450 mm / 18" for transmitter PSU (black)

1 x USB-A to mini-USB-B cable 450 mm / 18" for receiver PSU (black)

1 x HDMI Cable 1.5 m / 4,9 ft (black)

WARRANTY: Lifetime return-to-base

2 years onsite (UK only)

COMPLIANCES: RoHS, WEEE, CE/EMC

ORDER PART CODE: TC2-HDMIW7 [SAP: 3223892]

## **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:
  - 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 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
  - The reseller or end user has been abusive
  - 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.*