



TC-HDMIWM Wireless HDMI Matrix

TC-HDMIWMTX EU SAP: 4432256 US SAP: 12997411

TC-HDMIWMRX EU SAP: 4432257 US SAP: 12996980

vav.link/tc-hdmiwm-tx-rx

- Send video wirelessly up to 30 metres (98 ft)
- Uses 10 x WiFi Channels – one per transmitter
- Maximum of 2 x receivers per transmitter
- In the same WiFi area create
 - up to five discrete 2x2 Matrix systems, or
 - up to ten discrete 1:2 Distribution systems, or
 - 10:1 switching system, or
 - a mix of systems above

Take wireless HDMI one step further; send content from your laptop to one or two flat-panel displays or projectors – even through walls – with ease. No software or drivers necessary. It is plug-and-play, and intuitive. Ideal for presentation or meeting space applications.



Channel System

Each device has a channel selector which scrolls through ten channels. Transmitters (Tx) connect to each source, and each are set to transmit on different channels. Use up to 10 x Tx in the same WiFi area since they all use different channels. Receivers (Rx) connect to the displays. To determine which source they show adjust the channel.

System Rules

As you plan your system be aware it is not possible for three or more Rx to be on the same channel.

Matrix

Two sources can be patched to two displays. Set the transmitters to different channels, then adjust the channel on each Rx to switch which source is shown.

Distribution

Show content from one laptop on two displays. Connect a Tx to the laptop, and a Rx to each display. Set them all to the same channel, and you're done.

Switching

Supports switching up to ten sources on a display. Connect a transmitter (Tx) to each laptop, and a receiver (Rx) to each display. Change the channel on the Rx to determine which source it displays.

Present Button

When only one display is in use, the Present button on each transmitter can be used to remotely change the channel on the receiver. Note: the switch on the rear must be set to activate this.

Blend Systems

Because there are ten channels available you can blend together matrix, distribution, and switching systems

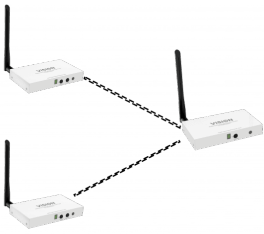
Range

The range can be up to 30 metres (98ft) in an enclosed environment – or up to 50 metres (164ft) in an open space. Too close or too far away and the image will degrade. It uses the same frequencies as wifi so it will work through dry-walls but performance drops off with distance and physical obstacles

5GHz

It creates it's own WiFi network in the 5GHz frequency band and uses non-DFS channels to avoid interference. The signal is made secure with 128 bit AES encryption.





Control

As well as using the buttons on the front panel to select channels, an included IR remote control directly selects channels, or a control system can switch them via RS-232.

WiFi Troubleshooting

An onscreen display can be used to look at the frequency spectrum to see what other devices might be interfering with your systems.

HDMI

It is HDMI 1.3 with HDCP 1.2 compliance. Features not supported are ARC (Audio Return Channel), and Ethernet.

Low Latency

The TC-HDMIWM has a latency of less than 200 millisecond – 1/5 of a second. It can support up to 1080P (1920 x 1080) video and is smooth and glitch-free.

IR Passthrough

Includes IR blaster and receiver cables to allow control of the source device from the remote display. Supports 20-60KHz frequencies.

Sleep

If the source is turned off or goes to sleep, the displays associated with that source will also be allowed to sleep.

Other Display Ports

If your computer has Mini-HDMI, miniDisplayPort, DisplayPort, or VGA Vision has all the adaptors you need to make it work. To see them [Click here](#).

MANUAL

Manual

EN PDF 1.19 MB

files.visionaudiovisual.com/products/TC-HDMIWM/manuals/TC-HDMIWM_manual_en.pdf

IMAGE

Product Images

ZIP 2.43 MB

<files.visionaudiovisual.com/products/TC-HDMIWM/images/TC-HDMIWM.zip>

Front

PNG 1.26 MB

files.visionaudiovisual.com/products/TC-HDMIWM/images/TC-HDMIWM_front.png

Rear

PNG 1.33 MB

files.visionaudiovisual.com/products/TC-HDMIWM/images/TC-HDMIWM_rear.png

Matrix

PNG 697.02 KB

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Dist

PNG 586.75 KB

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Switcher

PNG 568.71 KB

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Product Images

PNG 0.96 MB

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Product Images

PNG 1.11 MB

<files.visionaudiovisual.com/products/TC-HDMIWM/images/TC-HDMIWMRX.png>

SPECIFICATIONS

TRANSMITTER DIMENSIONS

135 x 80 x 23 mm / 5.3" x 3.1" x 0.9" (length x width x height)

RECEIVER DIMENSIONS

135 x 80 x 23 mm / 5.3" x 3.1" x 0.9" (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

290 g / 0.64 lbs

PRODUCT WEIGHT RX

290 g / 0.64 lbs

PACKAGED WEIGHT

630 g / 1.39 lbs (Tx and Rx is separately packaged.)

CONSTRUCTION MATERIAL

Metal

COLOUR

White

MAXIMUM VIDEO FORMAT SUPPORTED

1920x1080 / 1080P @ 60Hz

VIDEO

HDMI 1.3 with HDCP 1.2

MAX TRANSFER RATE

10.2 Gbps

TMDS SIGNAL

0.5~1.5Vp 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

< 90 % RH (no condensation)

MTBF (MEAN TIME BETWEEN FAILURES)

> 30,000 hours

TRANSMITTER POWER CONSUMPTION

Max 5 watts

RECEIVER POWER CONSUMPTION

Max 4.5 watts

LATENCY

< 200 ms

SWITCH TIME

up to 7s (allowing for EDID handshake each time)

MAXIMUM DISTANCE

30 m (98 feet)

ENCRYPTION

128 bit AES

LED CHANNEL -> WIFI CHANNEL -> FREQ -> BANDWIDTH

0->36->5.180->ht20 1->44->5.220->ht20 2->48->5.240->ht20 3->48->5.240->ht40 4->149->5.745->ht20 5->153->5.765->ht20 6->157->5.785->ht20 7->161->5.805->ht20 8->165->5.825->ht20 9->161->5.805->ht40

TRANSMITTER CONNECTIVITY

1 x HDMI socket - gold-plated input 1 x DC power - phoenix connector 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 1 x 9-Pin D-Sub Male for RS-232

POWER SUPPLY

100-240v AC 50/60Hz 5 volt / 2 amp 10 watt

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

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

WARRANTY

Lifetime return-to-base

VISION

COMPLIANCES

RoHS, WEEE, CE, FCC, RCM-POC, SDOC, IC

ORDER PART CODE: TRANSMITTER

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