HDMI-over-IP Matrix

Transmits HDMI over a network or Point-to-Point
Plug-and-Play; no PC necessary for basic setup
4K @ 60Hz (H.264)

Designed for video transmission applications the Techconnect Matrix allows distribution of HDMI content over an existing LAN infrastructure. You simply need a transmitter for each source, and a receiver for each display.

Switch / Distribute / Matrix
This product uses an IP network to distribute, switch, or matrix. It can have up to 100 x transmitters, and 100 x receivers.

Managed Switch
A "layer-3" switch is required with IGMP snooping turned on to allow multicasting. You don't need to know what this means, but it is essential it is turned on.

Shared Subnet
All end points must be on the same sub-net.

4Kx2K
With a maximum transfer rate of 18 Gbps and using H.264 compression this system supports 4K.

Point-to-Point
You can connect a transmitter directly to a receiver with a CAT6 cable and use it as a simple extender. Maximum cable length up to 120 m (394 ft).

Scaleable
Whether you need a small system or a large system; just buy what you need. When your system needs to grow just add more end points. Transmitters and receivers are sold separately.

Easy Setup and Switching
Each transmitter and receiver should be set to a unique channel on the front panel. Adjust the "TX Connected" channel on each receiver to select the target transmitter. Use the buttons on the front panel or the included remote control to change channels.

Advanced Software
For advanced setup PC software is included (link below). This software allows scene (mode) setup to switch many devices at once. Laptop must be on sub-net and VPN clients must be disabled to work.

App Control
"Matrix Control Lite" (iOS and Android) allows you to give each end point a user-friendly name, and allows switching. A wireless router needs to be plugged into the network switch so the mobile device can be on the network. Only one phone or tablet can control it at a time.

IR Passback
The system supports IR passback so source devices can be controlled remotely. IR emitter and receiver cables are included with each device. Note: sends IR commands from Tx-Rx or Rx-Tx as required.

Crestron and AMX drivers
Designing a system controlled by a Crestron or AMX control system is easy.

MANUAL

AMX drivers
EN ZIP 5.91 MB
files.visionaudiovisual.com/products/TC-MATRIX/manuals/TC-MATRIX_AMX_drivers.AXW

Crestron drivers
EN ZIP 2.36 MB
files.visionaudiovisual.com/products/TC-MATRIX/manuals/TC-MATRIX_Crestron_drivers.zip

Control
EN ZIP 2.18 MB
files.visionaudiovisual.com/products/TC-MATRIX/manuals/TC-MATRIX_control.zip

Manual
EN PDF 1.72 MB
files.visionaudiovisual.com/products/TC-MATRIX/manuals/TC-MATRIX_manual_en.pdf

SPECIFICATIONS

PRODUCT DIMENSIONS
164 x 108.5 x 23.6 mm / 6.46″ x 4.27″ x 0.93 ″ (length x width x height)

PACKAGED DIMENSIONS
357 x 153.5 x 85 mm / 14″ x 6.04″ x 3.35 ″

PRODUCT WEIGHT
330g / 0.73 lb

PACKAGED WEIGHT
0.8kg / 1.76 lb

CONSTRUCTION MATERIAL
Metal

COLOUR
Black

INPUT AND OUTPUT TMDS SIGNAL
0.7-1.5 volts p-p

INPUT AND OUTPUT DDC SIGNAL
5 volts p-p (TTL)

MAXIMUM VIDEO FORMAT SUPPORTED
4K

OUTPUT VIDEO
HDMI 2.0 with HDCP 2.2

OUTPUT AUDIO
PCM

COMPRESSION
H.264

INPUT AND OUTPUT HDMI CABLE LENGTH
5m (16.4 ft) AWG 26

OPERATING TEMPERATURE RANGE
0-50°C

STORAGE TEMPERATURE RANGE
-10-70°C

OPERATING HUMIDITY RANGE
0 to 90 % no condensation

TX POWER CONSUMPTION
7 watts

RX POWER CONSUMPTION
10 watts

CAT6 MAXIMUM DISTANCE (IF CONNECTED PEER-TO-PEER DIRECTLY)
120 m (394 ft)

IR PASSBACK BANDWIDTH
20-60 kHz

ESD PROTECTION
1a Contact discharge level 3 / 1b Air discharge level 3 (Standard: IEC61000-4-2)

CONNECTIVITY
1 x HDMI (type A) 1 x Ethernet (RJ45) 1 x DC Power (2-port phoenix) 1 x 3.5mm Minijack (IR)

POWER SUPPLY
100-240v 50/60Hz AC 5 volt / 3 amp

TRANSFORMER INTEGRATED INTO PLUG

INCLUDES INTERCHANGEABLE PLUGS
UK/EU/US/AU

DC TAIL LENGTH
1.8m

TRANSFORMER DIMENSIONS
81 x 52 x 38mm / 3.2″ x 2.05″ x 1.5″

ACCESSORIES INCLUDED
2 x Mounting ears 1 x Remote Control 1 x IR Emitter Cable 1 x IR Receiver Cable

WARRANTY
Lifetime return-to-base

COMPLIANCES
RoHS, WEEE, CE/EMC

ORDER PART CODE
Transmitter TC-MATRIXTx [EU SAP: 4631209 / US SAP: 4631209] Receiver TC-MATRIXRx [EU SAP: 4631210 / US SAP: 13293566]

SPARE POWER SUPPLY UNIT (PSU)
tbc [SAP:]

VISION