



## VS-88HTX

The 18Gbps 8x8 HDBaseT(150M) Matrix can connect 8 HDMI sources to 16 displays. It features 8 HDMI outputs and each HDMI output is mirrored to provide a CAT-Cable output which runs simultaneously. HDBaseT output can extend video transmission distance up to 492ft / 150m via a single Cat 5e/6/7 cable. The product supports video resolution up to 4K2K@60Hz 4:4:4. Audio de-embedded to analog and coaxial audio is supported. Each HDMI output supports 4K2K to 1080P down scaler independently. The product supports IR matrix. The IR signal is one-to-one control at the Matrix end, but the IR signal follows HDMI video channel at the HDBaseT Receiver end. The product provides an intuitive set of front panel with OLED screen and supports control via front panel buttons, IR remote, RS-232, LAN, and Web GUI.

## FEATURE

- HDMI 2.0b, HDCP 2.2 and HDCP 1.x compliant
- Video resolution up to 4K2K@60Hz (YUV 4:4:4) on all HDMI & HDBaseT ports
- 8 HDMI inputs, 8 HDMI & HDBaseT mirrored outputs
- HDMI ports transmit 18Gbps lossless uncompressed video bandwidth
- Support 18Gbps lossless compressed HDBaseT signal transmission
- Support 4K->1080P Down Scaler for each output port
- HDR, HDR10, HDR10+, Dolby Vision, HLG are supported
- HDBaseT output can extend video transmission distance up to 492ft / 150m for 1080P or 394ft / 120m for 4K2K via a single Cat 5e/6/7 cable
- HDMI audio pass-through up to 7.1CH HD audio (LPCM, Dolby TrueHD and DTS-HD Master Audio)
- Support IR matrix
- Audio de-embedded is supported via analog and coax ports
- Advanced EDID management and CEC control are supported
- 24V POC on all HDBaseT ports
- 2U rack mounted design with front panel OLED display
- Control via front panel buttons, IR remote, RS-232, LAN and Web GUI

## SPECIFICATION

### Technical

|                                |                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| HDMI Compliance:               | HDMI 2.0b                                                                                                                      |
| HDCP Compliance:               | HDCP 2.2 and HDCP 1.X                                                                                                          |
| Video Bandwidth:               | 18Gbps                                                                                                                         |
| Video Resolution:              | Up to 4K2K@50/60Hz (4:4:4)                                                                                                     |
| Color Space:                   | RGB, YCbCr 4:4:4/4:2:2/4:2:0                                                                                                   |
| Color Depth:                   | 8-bit, 10-bit, 12-bit (1080p@60Hz)<br>8-bit (4K2K@60Hz YUV4:4:4)<br>8-bit,10-bit,12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)          |
| HDR:                           | HDR10, HDR10+, Dolby Vision, HLG                                                                                               |
| HDMI Audio Formats:            | LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD,<br>Dolby Digital Plus(DD+), DTS-ES, DTS HD Master,<br>DTS HD-HRA, DTS-X |
| Coax Audio Formats:            | PCM 2.0, Dolby Digital / Plus, DTS 2.0/5.1                                                                                     |
| Analog Balanced Audio Formats: | PCM2.0                                                                                                                         |
| V_max:                         | 2V_rms                                                                                                                         |
| SNR:                           | > 90dB                                                                                                                         |
| THD+N Ratio:                   | < 0.1% (V_max) 0.001%-0.01% (V_best)                                                                                           |
| Crosstalk:                     | > 80dB                                                                                                                         |
| Frequency Response:            | 20Hz-20kHz ±0.5dB                                                                                                              |
| ESD Protection:                | Human body model — ±8kV (air-gap discharge) & ±4kV<br>(contact discharge)                                                      |

### Connection

#### Matrix

|                |                                                                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input ports:   | 8x HDMI Type A [19-pin female]                                                                                                                              |
| Output ports:  | 8x HDMI Type A [19-pin female]<br>8x HDBaseT port [RJ45]<br>8x Coaxial audio [3.5mm Stereo Mini-jack]<br>8x balanced analog audio [5-pin Phoenix connector] |
| Control Ports: | 9x IR IN [3.5mm Stereo Mini-jack]<br>9x IR OUT [3.5mm Stereo Mini-jack]<br>1x TCP/IP [RJ45]<br>1x RS-232 [D-Sub 9]                                          |

#### HDBaseT Receiver

|                |                                                                                                                                                      |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input ports:   | 1x HDBT IN [RJ45, 8-pin female]                                                                                                                      |
| Output ports:  | 1x HDMI Type A [19-pin female]<br>1x AUDIO OUT [3.5mm Stereo Mini-jack]                                                                              |
| Control Ports: | 1x IR IN [3.5mm Stereo Mini-jack]<br>1x IR OUT [3.5mm Stereo Mini-jack]<br>1x RS-232 [3-pin Phoenix connector]<br>1x SERVICE [Mini-USB, Update port] |

### Mechanical

|                          |                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------|
| Housing:                 | Metal Enclosure                                                                         |
| Color:                   | Black                                                                                   |
| Dimensions:              | Matrix: 440mm (W) x 374mm (D) x 88.6mm (H)<br>Receiver: 140mm (W) x 65mm (W) x 18mm (W) |
| Weight:                  | Matrix: 6.54Kg, Receiver: 155g                                                          |
| Power Supply:            | AC 100 - 240V 50/60Hz                                                                   |
| Power Consumption (Max): | 125W (Max)                                                                              |
| Operation Temperature:   | 32 - 104°F / 0 - 40°C                                                                   |
| Storage temperature:     | -4 - 140°F / -20 - 60°C                                                                 |
| Relative Humidity:       | 20 - 90% RH (no condensation)                                                           |

