



VP-51HTXD

The VP-51HTXD is 5x1 seamless presentation switch features 3 HDMI inputs, 2 USB-C inputs (DP Alt mode, USB 2.0, 100M Ethernet and 60W charging), 1 HDMI output and 1 HDBT mirrored output. HDBT supports standard PoE power supply, and can extend uncompressed signal up to a distance of 230ft/70m (4K@30Hz 4:4:4) or 131ft/40m (4K@60Hz 4:4:4) via a single CAT6A (F/FTP) cable. This 5x1 seamless presentation switch output supports single full screen or various multiview display modes (Single/PIP/PBP/Triple/Quad). This product supports USB 2.0 local KVM switching and local Hub/HDBT USB pass-through function (from TX to RX). It also supports bi-directional RS-232 and IR control signal pass-through function. This presentation switch is featured with 1 analog audio input, 1 analog audio output, and Dante® 2x2 audio input and output. It built-in 3x3 audio matrix with independent audio EQ/volume/delay adjustment.

FEATURE

- HDMI 2.0b, HDCP 2.2 compliant
- Support 18 Gbps Video Bandwidth
- Up to 5 categories of multiview display modes: Single/PIP/PBP/Triple/Quad
- Support resolution up to 4K60Hz RGB/YCbCr 4:4:4
- Support LPCM, Dolby Digital, DD+, DTS audio pass-through
- 3x HDMI and 2x USB-C inputs support auto and manual seamless switching
- USB-C supports ALT-DP mode for A/V, USB and 60W charging
- Full screen / PIP / PAP / Quad-view configurable display modes
- HDMI and HDBaseT 3.0 (70m PoE) mirrored outputs
- Built-in equalizer, scaling, retiming and driver
- Dante and external analog audio embedded and de-embedded
- EDID management
- Front panel button, IR, RS-232, TCP/IP and Web GUI control

SPECIFICATION

Technical

HDMI Compliance:	HDMI 2.0b
HDCP Compliance:	HDCP 2.2
Video Bandwidth:	18Gbps
USB Bandwidth:	Tx USB Devices to Tx Host/USB-C: 480Mbps Rx USB Devices to Tx Host/USB-C: 350Mbps. Rx USB Devices to Rx Host: 480Mbps.
Network Bandwidth (LAN/USB-C Connection):	100Mbps.
Input Video Resolution:	480i ~1080p50/60Hz, 4Kx2K@24/30Hz, 4K2K@50Hz/60Hz 4:4:4
Output Video Resolution:	Auto, 3840x2160p60, 3840x2160p50, 4096x2160p60, 4096x2160p50, 3840x2160p30, 3840x2160p25, 1920x1200p60RB, 1920x1080p60, 1920x1080p50, 1360x768p60, 1280x800p60, 1280x720p60, 1280x720p50, 1024x768p60
Color Depth:	Input: 8-bit (4K60Hz 4:4:4), 10-bit, 12-bit Output: 8-bit
Color Space:	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Audio Formats:	LPCM 2.0
Audio Sample Rate:	48KHz
Transmission Distance:	1080P&4K40 at 230ft/70m.; 4K60 at 131ft/40m.
HDR:	support on input
ESD Protection:	IEC 61000-4-2 ±8kV (air-gap discharge) & ±4kV (contact discharge)

TX Analog Audio

Input Impedance:	10K Ohms.
Output Impedance:	330 Ohms.
Line Input Level (Maximum):	8.2dBu (2 Vrms) @ Balanced or unbalanced audio
Line Output Level (Maximum):	8.2dBu (2 Vrms) @ balanced audio / 2.2dBu (1 Vrms) @ unbalanced audio
Frequency Response:	(+0.5 dB, -1 dB) 20Hz to 20kHz.
Audio output sync delay:	0 to 50ms.
Audio S/N Ratio:	93dB @ 2 Vrms, 1kHz. A-weighted
Audio THD+N:	<0.1% @ 0dBV, 1kHz.

Rx Analog Audio

Output Impedance:	330 Ohms.
Line Output Level (Maximum):	8.2dBu (2 Vrms) @ Balanced audio / 2.2dBu (1 Vrms) @ unbalanced audio
Frequency Response:	(+0.5 dB, -1 dB) 20Hz to 20kHz.
Audio output sync delay:	0 to 50ms.
Audio S/N Ratio:	93dB @ 2 Vrms, 1kHz. A-weighted
Audio THD+N:	<0.1% @ 0dBV, 1kHz.

Dante® Audio

Audio Formats:	LPCM 2.0
Sample Rate:	44.1, 48, 88.2 and 96kHz. at 24 bits
Audio Delay:	2ms, 3ms, 4ms, 5ms, 10ms.
Network Bandwidth:	100Mbps

SPECIFICATION

Connection

Transmission

Input Ports:	3x HDMI Inputs [Type A, 19-pin female] 2x USB-C [24-pin female] 1x Line In [5-pin phoenix connector]
Output Ports:	1x HDMI Output [Type A, 19-pin female] 1x HDBT Output [RJ-45] 1x Line Out [5-pin phoenix connector]
Control Ports:	1x RS-232 [3-pin phoenix connector] 1x LAN [RJ-45] 1x USB Host [USB Type B] 2x USB Devices [USB Type A] 1x IR In [3.5mm stereo mini-jack] 1x IR Out [3.5mm stereo mini-jack]

Receiver

Input Ports:	1x HDMI In [Type A, 19-pin female] 1x HDBaseT In [RJ45]
Output Ports:	1x HDMI Out [Type A, 19-pin female] 1x Line Out [5-pin phoenix connector]
Control Ports:	1x RS-232 [3-pin Phoenix connector] 1x USB Host [USB Type B] 2x USB Devices [USB TypeA] 1x Service [Micro USB] 1x IR In [3.5mm stereo mini-jack] 1x IR Out [3.5mm stereo mini-jack]

Mechanical

Housing:	Front panel: Aluminum Rear case: Metal Enclosure
Color:	Black
Dimensions:	Transmitter: 220mm (W) x 150mm (D) x 44mm (H) Receiver: 140mm (W) x 105mm (D) x 21.5mm (H)
Weight:	Transmitter: 1.21Kg, Receiver: 424g
Power Supply:	Input: AC 100 - 240V 50/60Hz Output: DC 24V/8A (US/EU standard, CE/FCC/UL certified)
Power Consumption (Max):	150W (Max)
Operation Temperature:	0°C - 40°C / 32 - 104°F
Storage temperature:	-20 - 60°C / -4 - 140°F /
Operation Humidity:	20 - 80% (relative humidity, non-condensing)
Relative Humidity:	10 - 90% (relative humidity, non-condensing)

Connection Diagram

