

DVDO

DVDO-USBC-HDMI-PS-51

Seamless Switcher/Scaler/Extender
With USB-C & HDMI Inputs & Dante



Features

- Compliant HDMI 2.0b, HDCP 2.2 and DP 1.2 compliant
- Support video resolutions up to 4K@60Hz 4:4:4 & 18Gbps video bandwidth
- Uncompressed 4K60 over HDBT 3.0 up to 132ft/40m via single CAT6A (F/FTP) cable
- Uncompressed 1080p & 4K30 over HDBT 3.0 up to 230ft/70m via single CAT6A (F/FTP) cable
- Up to 5 categories of multiview display modes: Single/PIP/PBP/Triple/Quad
- 5x1 seamless switching (single screen) and fast switching (multiview) function
- Inputs: 2x USB-C, 3x HDMI, 1x Analog audio, 1x Dante 2ch
- Outputs: 1x HDMI and 1x HDBT (PoE) mirrored, 1x Analog audio, 1x Dante 2ch
- Dante 2x2 audio input and output
- USB-C supports DisplayPort Alt mode for A/V, USB 2.0, 100m Ethernet and 60W charging
- Local USB 2.0 KVM switching and extending USB 2.0 over HDBT 3.0
- Signal input supports manual switching and automatic switching modes
- Analog/Dante audio embedding, analog/Dante audio de-embedding output
- Advanced EDID management
- Control via front panel buttons, IR remote, RS-232, TCP/IP or Web GUI. CEC/RS-232 control external devices ON/OFF
- Support standard PoE power supply (TX_PSE, RX_PD)

DVDO-USBC-HDMI-PS-51 is a 5x1 seamless presentation switch with 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.

It can extend uncompressed signals 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.

The output supports single full screen or various multiview display modes (Single / PIP / PBP / Triple / Quad).

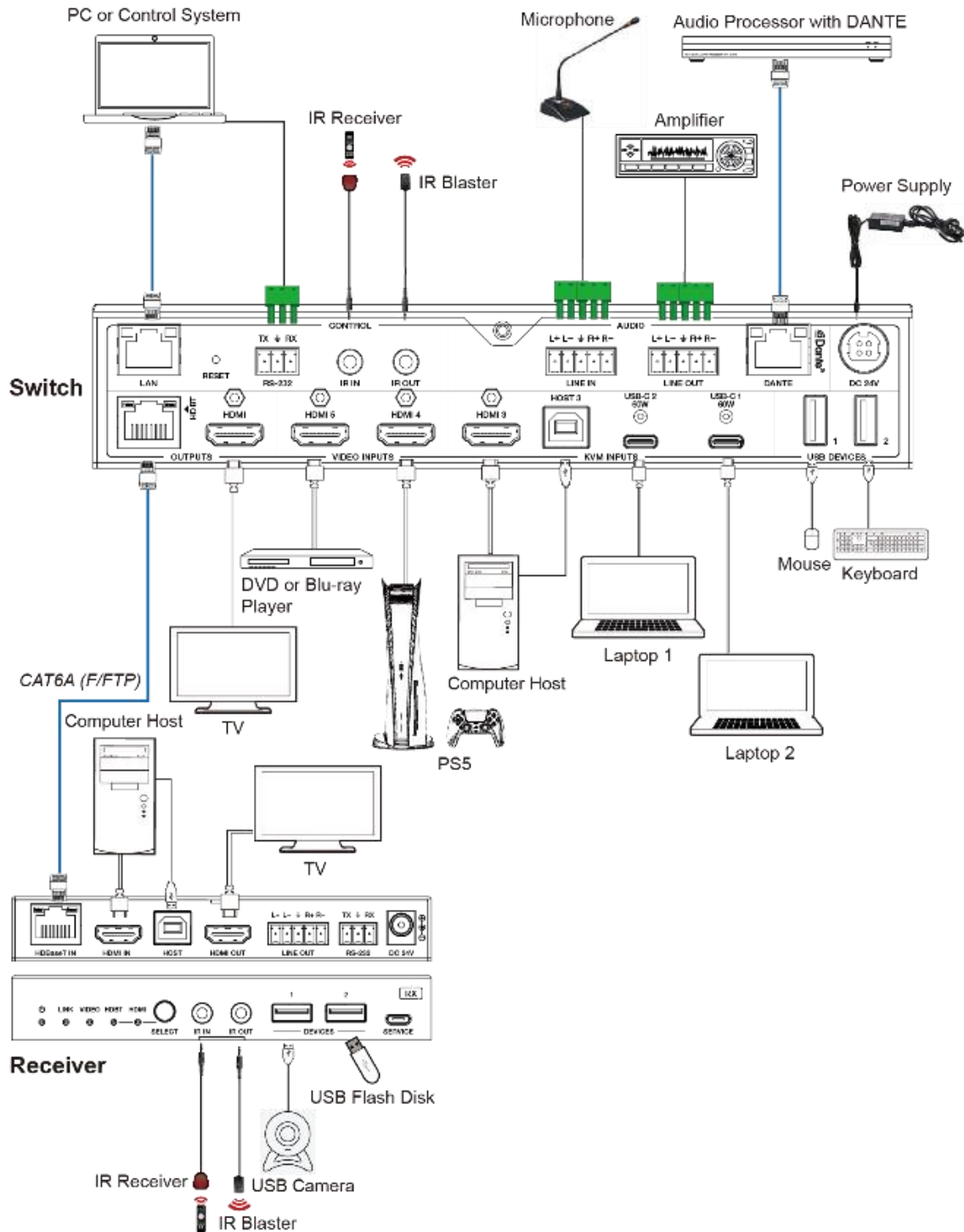
It provides USB 2.0 local KVM switching and local Hub/HDBT USB pass-through function (from Tx to Rx). It also supports bi-directional RS-232 and IR control signal pass-through function.

It also includes 1 analog audio input, 1 analog audio output, Dante 2x2 audio input and output as well as a built-in 3x3 audio matrix with independent audio EQ/ volume/delay .adjustment.

Applications

- Conference Rooms
- Training Rooms
- Boardrooms
- Education
- Lecture Halls
- Classrooms

Application Diagram



Technical Specifications

Technical	
Compliance	HDMI 2.0b / HDCP 2.2
DP Version	DP 1.2
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	100Mbps (LAN and USB-C connections)
Input Video Resolutions	480i ~1080p50/60Hz, 4Kx2K@24/30Hz, 4K2K@50Hz/ 60Hz 4:4:4
Output Video Resolutions	Auto, 3840x2160p60, 3840x2160p50, 4096x2160p60, 4096x2160p50, 3840x2160p30, 3840x2160p25, 1920x1200p60RB, 1920x1080p60, 1920x1080p50, 1360x768p60, 1280x800p60, 1280x720p60, 1280x720p50, 1024x768p60
IR Level	12Vp-p
IR Frequency	Wideband 20K-60KHz
Color Space	Input: 8/10/12-bit, 8-bit (4K60Hz 4:4:4) Output: 8-bit
Color Depth	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Audio Formats	LPCM 2.0
Audio Sample Rate	48KHz
Transmission Distance	1080P&4K30 -- 230ft/70m; 4K60 -- 131ft/40m
HDR	Input supports HDR, output doesn't support HDR
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)
Connections	
Transmitter	Inputs: 3 x HDMI inputs [Type A, 19-pin female], 1 x USB-C [24-pin female], 1 x Line In [5pin-3.5mm phoenix connector], 1 x DANTE [RJ45] Outputs: 1 x HDMI OUTPUT [Type A, 19-pin female], 1 x HDBT OUTPUT [RJ45], 1 x LINE OUT [5pin-3.5mm phoenix connector] Controls: 1 x RS-232 [3pin-3.5mm phoenix connector], 1 x LAN [RJ45], 1 x USB host [USB Type B], 1 x USB devices [USB Type A], 1 x IR IN [3.5mm stereo mini-jack], 1 x IR OUT [3.5mm stereo mini-jack]
Receiver	Inputs: 1 x HDMI IN [Type A, 19-pin female], 1 x HDBaseT IN [RJ45] Outputs: 1 x HDMI OUT [Type A, 19-pin female], 1 x LINE OUT [5pin-5mm phoenix connector] Control: 1 x RS-232 [3pin-3.5mm phoenix connector], 1 x USB host [USB Type B], 2 x USB devices [USB Type A], 1 x SERVICE [Micro USB], 1 x IR IN [3.5mm stereo mini-jack], 1 x IR OUT [3.5mm stereo mini-jack]

Tx Analog Audio	
Input Impedance	10K Ohms
Output Impedance	330 Ohms
Line Input Level (Maximum)	8.2dBu (2Vrms) @ balanced or unbalanced audio
Line Output Level (Maximum)	8.2dBu (2Vrms) @ balanced audio 2.2dBu (1Vrms) @ unbalanced audio
Frequency Response	(+0.5 dB, -1 dB) 20 Hz to 20 kHz
Audio Output Sync Delay	0 to 50ms
Audio S/N Ratio	93dB @ 2Vrms, 1kHz A-weighted
Audio THD+N	<0.1% @ 0dBV, 1kHz
Rx Analog Audio	
Output Impedance	330 Ohms
Line Output Level (Maximum)	8.2dBu (2Vrms) @ balanced audio 2.2dBu (1Vrms) @ unbalanced audio
Frequency Response	(+0.5 dB, -1 dB) 20 Hz to 20 kHz
Audio Output Sync Delay	0 to 50ms
Audio S/N Ratio	93dB @ 2Vrms, 1kHz A-weighted
Audio THD+N	<0.1% @ 0dBV, 1kHz
Dante Audio	
Audio Formats	LPCM2.0
Sample Rate	44.1, 48, 88.2 and 96KHz at 24 bits
Audio Delay	2ms, 3ms, 4ms, 5ms, 10ms
Network Bandwidth	100Mbps
Mechanical	
Housing	Front panel: Aluminum; Rear case: Metal Enclosure
Color	Black
Dimensions	Transmitter: 220mm [W]x150mm [D]x44mm [H] Receiver: 140mm [W]x105mm [D]x21.5mm [H]
Weight	Transmitter: 1.21Kg; Receiver: 424g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 24V/8A (US/EU standard, CE/FCC/UL certified)
Power Consumption	150W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20%~90% RH (non-condensing)