



HDMI/USB-C 2-Input Video Wall 4K@60 4:4:4

Versatile Video Wall Processor w/ Audio Out

MPN: VW-HDUSBC1X4

The KanexPro VW-HDUSBCIX4 is designed to realize truly capturing, routing, and distributing all-format signal to the video wall (LCD displays), while maintaining a true digital signal transmission. It features HDMI and USB-C input with resolution up to 4K@60 4:4:4, and 4 HDMI outputs. It supports multiple video wall modes to be set for video output. Furthermore, optical audio and L/R analog audio de-embedding output are also supported.

It can be controlled via front panel buttons, IR remote and RS-232 commands.

Industry Standard HDCP 2.2 & 4K/60

HDCP 2.2 authentication is present always on this matrix ensuring proper handshake of the protected content. It also maintains resolutions up to 4K4096x2160@24, 30, 50 or 60Hz, 3840x2160@24, 25,30, 50 or 60Hz and 2560x1080@60Hz displaying 21:9 aspect ratios. 1920 x 1200 or full HD 1080p/60 is a standard for all our matrix switchers.

Applications:

An HDMI USB-C 1x4 Video Wall Splitter for 4K allows users to split a single video signal into four displays, creating a multi-screen video wall. This device can take input from either HDMI or USB-C sources and distribute the video to multiple screens while maintaining 4K resolution. These splitters are commonly used in environments where multiple displays are required to show the same content or form part of a larger, unified display. Here are some applications for an HDMI USB-C 1x4 Video Wall Splitter (4K):

- Retail Digital Signage:
- Corporate Presentation and Conference Rooms
- Control Rooms and Monitoring
- Entertainment and Hospitality
- Broadcasting and Live Events
- Home Theatre or Multi-Room Entertainment
- Exhibitions and Trade Shows
- Educational Institutions
- Art Installations and Museums
- Gaming and eSports



Key Benefits of Using an HDMI USB-C 1x4 Video Wall Splitter:

- **Enhanced Visual Impact:** Delivers stunning 4K visuals across multiple screens, making it ideal for large-scale displays or immersive viewing environments.
- **Cost-Effective Multi-Screen Setup:** A splitter enables users to use multiple displays with a single input source, reducing the need for expensive, dedicated media players or PCs for each screen.
- **Flexible Input Options:** Supports both HDMI and USB-C, ensuring compatibility with a wide range of devices, including modern laptops and smartphones.
- **Ease of Installation:** Simple plug-and-play setup allows for quick and easy deployment, especially in temporary or changing environments like events or exhibitions.

FEATURES

- HDMI 2.0, HDCP 2.2 and DPI.2a compliant
- Support HDMI input and USB-C input, and the resolution is up to 4K@60Hz 4:4:4
- Support optical audio and L/R analog audio de-embedding output
- Support 8 video wall splicing modes: 1x1, 2x1, 3x1, 4x1, 1x2, 1x3, 1x4, 2x2
- Support image 180° rotation, convenient for ceiling installation
- Support bezel adjustment for the splicing edge
- Advanced EDID management
- Control via front panel buttons, IR remote and RS-232 commands
- Simple plug and play, no drive and installation setting are required
- Metal enclosure for rugged installation.

SPECIFICATIONS

TECHNICAL

HDMI Compliance	HDMI 2.0b		
HDCP Compliance	HDCP 2.2		
Video Bandwidth	18Gbps		
Video Resolution	Input: up to 4K@60Hz 4:4:4 Output: 720P60Hz, 1080P60Hz, 4K30Hz, 1024x768P60Hz		
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0		
Audio Latency	No Latency		
Video Latency	No Latency		
Color Depth	8/10/12 bit		
IR Level	5Vp-p		
IR Frequency	38KHz		
Audio Formats	HDMI IN/OUT: LPCM 2.0/5.1/7.1, Dolby Digital/Plus/EX, DTS, DTS-EX, DTS-96/24 L/R OUT: PCM 2.0 SPDIF(OPTICAL): Dolby Digital/plus, DTS 5.1, PCM 2.0		
ESD Protection	Human body model – ±8kV (Air-gap discharge) & ±4kV (Contact discharge)		
<i>Connection</i>			
Input ports	1 × HDMI INPUT [Type A, 19-pin female] 1 × USB-C INPUT [Type C, 24-pin female]		
Output ports	4 × HDMI OUTPUT [Type A, 19-pin female] 1 × OPTICAL AUDIO OUT [S/PDIF] 1 × L/R AUDIO OUT [RCA]		
Control ports	1 × RS-232 [3pin-3.81mm phoenix connector] 1 × IR EXT [3.5mm, Stereo Mini-jack]		
<i>Mechanical</i>			
Housing	Metal Enclosure		
Color	Black		
Dimensions	220mm [W] × 100mm [D] × 30mm [H]		
Weight	590g		
Power Supply	Input: AC 100-240V 50/60Hz, Output: DC 12V/1A (US/EU standards, CE/FCC/UL certified)		
Power Consumption	5.5W (Max)		
Operating Temperature	32 – 104°F / 0°C – 40°C		
Storage Temperature	-4°F – 140°F / -20°C – 60°C		
Relative Humidity	20 – 90% RH (Non-Condensing)		
Video Resolution	4K@60	4K@24	1080P@60
HDMI Cable Length	8m/26ft	10m/32ft	15m/49ft
(HDMI IN / OUT)			
The use of "Premium High-Speed HDMI" cable is highly recommended			

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APPLICATION DIAGRAM

