

4K60 HDMI/USB-C 1x4 Video Wall Controller






Compact 4K Video Wall Processor with 8 Display Modes, Audio De-embedding & RS-232 Control

MPN: VW-HDUSBC1X4



Display a single 4K source across up to four screens with pixel-perfect bezel compensation and flexible layout configurations. The KanexPro VW-HDUSBC1X4 is an 18Gbps 1x4 video wall controller that accepts HDMI or USB-C input at up to 4K@60Hz 4:4:4 and distributes it across four HDMI outputs in eight video wall modes — from 2x2 grids to 1x4 horizontal strips.

Compliant with HDMI 2.0b and HDCP 2.2, the controller supports Dolby Digital, DTS, and LPCM audio pass-through with dedicated optical and analog L/R audio de-embedding. Control via front-panel buttons, IR remote, or a full RS-232 ASCII command set for integration with third-party control systems. The compact metal enclosure (220x100x30 mm) fits any installation environment.

 4K60 4:4:4 HDMI 2.0b 18 Gbps	 USB-C Dual Input HDMI + USB-C	 8 Modes Video Wall Configurations	 Audio Optical + L/R De-embedding	 RS-232 Serial + IR Control
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KEY FEATURES

- Accepts 4K@60Hz 4:4:4 input via HDMI 2.0b or USB-C with 18Gbps bandwidth and HDCP 2.2 compliance
- Distributes a single source across up to four HDMI displays in 8 video wall configurations: 1x1, 2x1, 3x1, 4x1, 1x2, 1x3, 1x4, and 2x2
- Horizontal and vertical bezel compensation (0–10 range) for seamless image alignment across display bezels
- 180° image rotation per output channel for flexible display orientation in custom installations
- Optical (S/PDIF) and analog L/R (RCA) audio de-embedding supporting Dolby Digital, DTS 5.1, and LPCM up to 7.1 channels
- Full RS-232 ASCII command set (115200 baud) for integration with Crestron, Extron, AMX, and other control systems
- Six EDID modes per input for reliable source negotiation across mixed display environments
- Compact metal enclosure (220x100x30 mm) with front-panel buttons, IR remote, and IR extender port

SPECIFICATIONS

HDMI / HDCP	HDMI 2.0b • HDCP 2.2
Video Bandwidth	18 Gbps
Input Resolution	Up to 4K @ 60 Hz (4:4:4)
Output Resolution	720p60, 1080p60, 4K30, XGA (1024x768)
Inputs	1x HDMI [Type A] • 1x USB-C [Type C]
Outputs	4x HDMI [Type A] • 1x Optical • 1x L/R RCA
Audio Formats	LPCM 2.0/5.1/7.1, Dolby Digital/Plus/EX, DTS, DTS-EX
Control	RS-232 (3-pin Phoenix, 115200) • IR Remote • Front Panel
Enclosure	Metal • Black • 220 × 100 × 30 mm • 590 g
Power	AC 100–240V → DC 12V/1A • 5.5W max
Environment	32–104 °F (0–40 °C) • 20–90% RH

PACKAGE CONTENTS

1x Video Wall Controller • 1x 12V/1A Power Adapter • 1x IR Remote • 1x IR Receiver Cable (1.5m) • 1x 3-pin Phoenix Connector • 4x Machine Screws • 4x Rubber Feet • 4x Screw Posts • 1x User Manual

