

HDMI 4x1 Quad Multi-View Seamless Switcher 4K@60 4:4:4

The KanexPro VW-MVIEW4X1 HDMI 4x1 Quad Multi-View w/ Seamless Switcher was developed for the purpose of supporting higher output resolution (4K@60) for multiple sources on a single screen. It can combine up to four video signals onto a single UHD or HD display. The user can manage each input, create combinations of the four inputs on a single display, and adjust the position of any input. This product supports 8 display modes, within the mode range users can freely switch 4-channel HD input signals. It supports full range of input video resolutions up to 4K@60 (RB) and audio RCA/Optical de-embedding for external audio systems. Control via front panel buttons, IR remote, OSD menu, Controller software, RS-232 commands.

Surge Protection Recommended — This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, or lightning strikes. Use of surge protection systems is highly recommended.

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FEATURES

- ✓ HDMI 2.0b, HDCP 2.2 and HDCP 1.x compliant
- ✓ Support 18Gbps video bandwidth
- ✓ Input and output resolutions support up to 4K@60Hz
- ✓ Support LPCM, AC3, DD+, DTS, DTS-HD, up to 7.1 audio channel
- ✓ Seamless switching between input channels and combined multiple images on single UHD monitor
- ✓ Up to 8 display modes: SINGLE, PIP, PBP (1), PBP (2), Triple (1), Triple (2), Quad (1), Quad (2)
- ✓ Seamless switching in single screen display mode
- ✓ Fast switching in multiview display mode
- ✓ Audio de-embedding via analog and optical fiber audio ports
- ✓ Support volume control and independent audio selection
- ✓ Support OSD navigation for advanced setting
- ✓ EDID management
- ✓ Control via front panel buttons, IR remote, OSD menu navigation, Controller software, RS-232 commands
- ✓ Compact design for easy and flexible installation

PACKAGE CONTENTS

1x 4K60 4x1 Multiviewer Seamless UHD Video Switcher • 1x IR Remote • 1x 3pin-3.81mm Phoenix Connector (male) • 1x 38KHz IR Wideband Receiver Cable (1.5 meters) • 2x Mounting Ears • 4x Machine Screws (KM3x4) • 4x Rubber Feet • 1x 12V/2.5A Locking Power Adapter • 1x User Manual



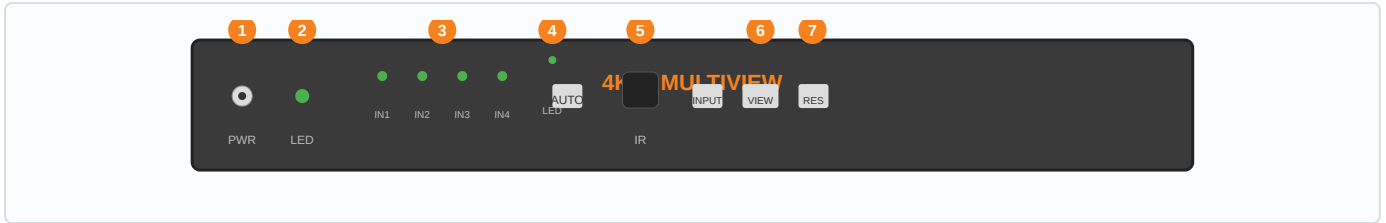
Specifications

TECHNICAL	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 / 1.x
Video Bandwidth	18 Gbps
Video Resolution	Up to 4K@60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8-bit
Audio Formats (HDMI)	PCM 2.0/5.1/7.1CH, Dolby Digital/Plus, DTS, DTS High Res
Audio Formats (Analog 3.5mm L/R)	PCM 2.0
Audio Formats (SPDIF Optical)	Dolby Digital, DTS 5.1, PCM 2.0 (Note: does not support HBR audio)
IR Level	5Vp-p
IR Frequency	38KHz
ESD Protection	±8kV (air-gap) & ±4kV (contact)
CONNECTION	
Input Ports	4 × HDMI IN [Type A, 19-pin female]
Output Ports	1 × HDMI OUT [Type A, 19-pin female], 1 × L/R OUTPUT [RCA], 1 × OPTICAL OUTPUT [S/PDIF]
Control Ports	1 × RS-232 [3pin-3.81mm phoenix connector], 1 × IR EXT [3.5mm Stereo Mini-jack]
MECHANICAL	
Housing	Metal Enclosure, Black
Dimensions	220mm [W] × 100mm [D] × 30mm [H]
Weight	620g
Power Supply	Input: AC 100–240V 50/60Hz, Output: DC 12V/2.5A
Power Consumption	10W (Max)
Operating Temperature	32–104°F / 0–40°C
Storage Temperature	–4–140°F / –20–60°C
Relative Humidity	20–90% RH (non-condensing)



Operation Controls

FRONT PANEL



No.	Name	Function Description
1	Power Button	Short press to power on; long press 1 second for standby mode.
2	Power LED	Green when powered on; red on standby.
3	Input 1-4 LEDs	Input signal indicator lights. In single screen mode, corresponding green LED lights for active input. In multiview mode, all active input LEDs light.
4	AUTO LED	Lights green when device is in AUTO mode (automatically identifies next connected HDMI input when current source disconnects).
5	IR Window	IR signal receiving window.
6	AUTO / INPUT / VIEW	AUTO: Automatic switching (only in single screen mode). INPUT: Input source switching (single screen mode). VIEW: Cycle display modes.
7	RES Button	Short press cycles output resolution. Long press 3 seconds resets to 720P60.

REAR PANEL

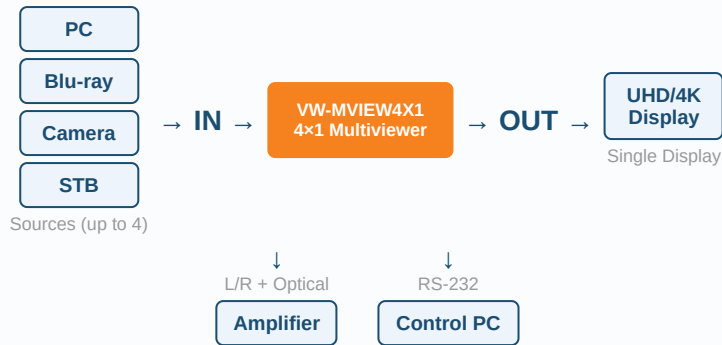


No.	Name	Function Description
1	L/R	PCM 2.0 Analog audio output port (RCA).
2	OPTICAL	Optical fiber digital audio output port (S/PDIF).
3	HDMI OUT	HDMI signal output port, connected to HDMI display device such as TV or Monitor with HDMI cable.
4	HDMI IN 1-4	HDMI signal input ports, connected to HDMI source device such as DVD or Set-top box with HDMI cable.
5	RS-232	3-pin phoenix connector, connected to a PC or control system for serial port upgrade or RS-232 command control.
6	IR EXT	IR signal receiving port, connected with 38KHz IR Receiver cable. If the IR receiving window is blocked, insert IR receiver cable here.
7	DC 12V	DC 12V/2.5A power input port.



Application Example

Multi-Source Quad Multi-View to Single Display with Audio De-embedding



How it works: Connect up to 4 HDMI sources to inputs IN 1–4. The device combines and displays multiple video streams on a single UHD/4K monitor in 8 different display modes: SINGLE, PIP, PBP (1), PBP (2), Triple (1), Triple (2), Quad (1), Quad (2). Audio is simultaneously de-embedded from the HDMI output to both analog RCA (L/R) and optical S/PDIF ports for external audio systems. Use front panel buttons, IR remote, OSD menu, or RS-232 commands to control operation.

TROUBLESHOOTING

Q: No video output on the display?

A: Confirm Premium High Speed HDMI cables (18Gbps rated) are used. Verify the input source is active and connected properly. Try changing the EDID mode to match the display's native resolution. Press the RES button to cycle through output resolutions.

Q: No audio from the analog or optical outputs?

A: Verify audio cables are connected properly. Check that audio input selection matches the desired HDMI input via the OSD menu or controller software. Note: the optical output does not support HBR audio formats (Dolby TrueHD, DTS-HD MA) — those pass through HDMI only.

Q: Multiview mode not switching?

A: The MULTIVIEW button only works when the device is not in SINGLE or PIP mode controlled by AUTO. Press the MULTIVIEW button to cycle through modes. Long press for 3 seconds to change the aspect ratio within PBP, Triple, or Quad modes.

