



KA131A 4X1 HDMI 4K30HZ MULTIVIEWER SEAMLESS SWITCH – IMPROVED



Introduction

The high-performance 4×1 quad multi-viewer supports four routes HDMI high-definition input contents to be displayed on one HDMI screen. It supports audio output selected from different input sources independently. 8 multi-view display modes are also supported. Output resolutions can be adjusted up to 4K30Hz. The product can be controlled via front panel buttons, IR remote and RS-232 control.

Features

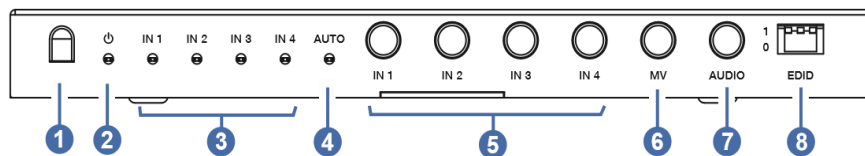
- HDCP 1.4 compliant
- Support 10.2Gbps video bandwidth
- Input and output resolution is up to 4K@30Hz, as specified in HDMI 1.4b
- Support auto switching and manual switching
- Seamless switching between inputs and combined multiple images on single UHD monitor in multi-view display mode ☆ Seamless switching in single-view display mode
- Support 8 display modes: SINGLE, PIP, PBP (1), PBP (2), Triple (1), Triple (2), Quad (1), Quad (2)
- Support LPCM, DD, DD+, DTS audio channel
- Support audio de-embedding via the analog audio port
- Support independent audio selection
- Support OSD display in multi-view display mode
- Control via front panel button, IR remote and RS-232 commands
- Advanced EDID management
- Compact design for easy and flexible installation

Specifications

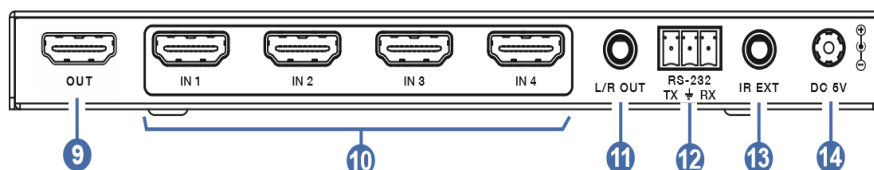
Technical		
HDMI Compliance	HDMI 1.4b	
HDCP Compliance	HDCP 1.4	
Video Bandwidth	Up to 10.2Gbps	
Video Resolution	Input: Up to 4K@30Hz Output: 720P@60Hz,1080P@60Hz,1920x1200P@60Hz, 4K@30Hz	
Color Depth	8-bit,10-bit,12-bit	
Color Space	RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0	
Audio Formats	HDMI IN/OUT: LPCM 2.0, LPCM 5.1, Dolby 2.0, Dolby 5.1, Dolby Digital Plus, DTS 2.0, DTS 5.1 L/R OUT [3.5mm L/R] : PCM 2.0;	
IR Level	5Vp-p	
IR Frequency	Fixed Frequency 38KHz	
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)	
Connection		
Input	4× IN [HDMI Type A, 19-pin female]	
Output	1× OUT [HDMI Type A, 19-pin female] 1× L/R OUT [3.5mm stereo jack]	
Control	1× RS-232 [3pin-3.81mm Phoenix Connector] 1× IR EXT [3.5mm stereo jack]	
Mechanical		
Housing	Metal	
Color	Black	
Dimensions	176mm [W] × 68mm [D] × 18mm [H]	
Weight	300g	
Power Supply	Input: AC 100~240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)	
Power Consumption	2.75W (Max)	
Operation 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)	
Recommended HDMI Cable		
Video Resolution	4K30	1080P 4:4:4
HDMI Cable Length (HDMI IN / OUT)	5m/16ft	10m/33ft
The use of "Premium High-Speed HDMI" cable is highly recommended.		

Operation Controls and Functions

Front Panel



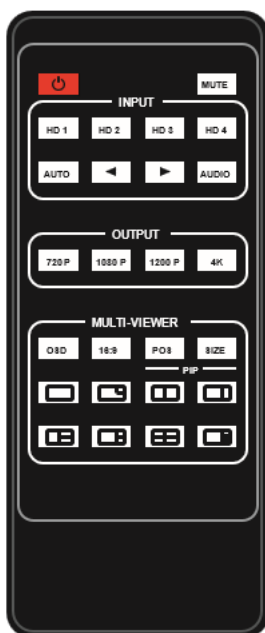
Rear Panel




No.	Name	Function Description
1	IR window	IR signal receiving window.
2	Power LED	When the device is powered on, the power LED is green; When the device is stand by, the power LED is red.
3	IN 1/2/3/4 LED	Single-view mode: When the IN 1/2/3/4 port is selected as an input channel, the corresponding green LED will be on. Multi-view mode: When the IN 1/2/3/4 port is selected as an input audio source, the corresponding green LED will be on.
4	AUTO LED	When the auto switching mode is enabled, the green LED will be on.
5	IN1/2/3/4 switch button	Single-view mode: Press the button IN 1/2/3/4 to switch to the corresponding input channel. Multi-view mode: IN 1/2/3/4 corresponds to the window 1/2/3/4. For example, pressing IN 1 can switch the four input sources circularly to output on window 1. IN 2/3/4 is the same.
6	MV button	Press this button to circularly switch the 8 display modes: SINGLE, PIP, PBP (1), PBP (2), Triple (1), Triple (2), Quad (1), Quad (2).
7	AUDIO button	In multi-view mode, press this button to switch the audio of the four input sources circularly.
8	EDID DIP switch	Used for EDID setting. 111 - Copy OUT port sink EDID 110 - 4K@30Hz, Audio 2.0ch PCM 101 - 4K@30Hz, Audio 5.1ch PCM 100 - 1080P, Audio 2.0ch PCM 011 - 1080P, Audio 5.1ch PCM 010 - 1920x1200, 2.0ch 001 - 1920x1200, 5.1ch 000 - Defined by RS-232 command

9	OUT port	HDMI signal output port, connected to an display device such as TV or Monitor with HDMI cable.
10	IN 1/2/3/4 port	HDMI signal input ports, connected to source devices such as DVD or PS5 with HDMI cable.
11	L/R OUT	PCM 2.0 analog audio output port.
12	RS-232	Connects to a PC or control system for serial update and command control.
13	IR EXT	IR signal receiving port, connected with IR Receiver cable. If the IR signal receiving window of the unit is blocked or the unit is installed in a closed area out of infrared line of sight, the IR receiver cable can be inserted to the "IR EXT" port to receive the IR remote signal.
14	DC 5V	DC 5V/1A power input port.

IR Remote



 : Power on the device or set it to standby mode.

MUTE: Press this button to enable or disable the audio output.


INPUT:

HD 1/2/3/4:

Single-view Mode: Press HD 1/2/3/4 to switch to the corresponding HDMI input channel.

Multi-view Mode: HD 1/2/3/4 corresponds to the window 1/2/3/4. For example, pressing HD 1 can switch the four input sources circularly to output on window 1. HD 2/3/4 is the same.

AUTO: Press this button to enable or disable auto switching for input signal sources.

 : In single-view mode, press to select the input source circularly.

AUDIO: In multi-view mode, press to switch the audio of the four input sources circularly.

OUTPUT: 720P/1080P/1200P/4K: Press to select the corresponding resolution to output.

MULTI-VIEWER:

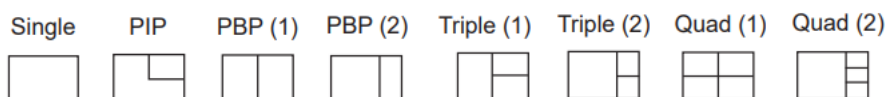
OSD: Press to switch three OSD display states: no OSD, display current input channels, display current input channels and borders.

16:9: Press to switch the aspect ratio between full-screen and 16:9.

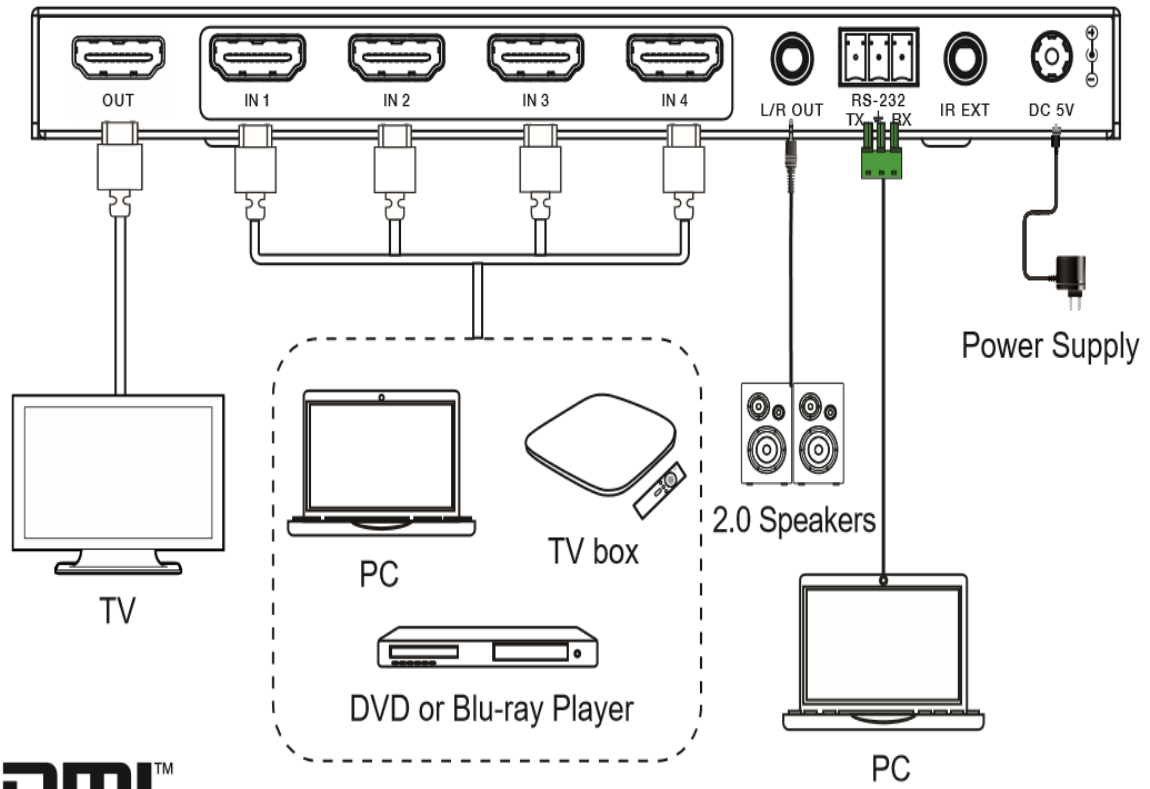
POS: Press to switch the position of PIP view: top left, bottom left, top right, bottom right.

SIZE: Press to switch the size of PIP view: large, middle, small.

Display Mode: Press to select the multi-view modes as follow:



Application Example



HDMI[™]
HIGH-DEFINITION MULTIMEDIA INTERFACE