



## KA221 Ultra HD Video Wall Processor



### Introduction

This product is a HDMI 2.0 Video Wall controller with 2 HDMI input, 2 HDMI loop out and 4 HDMI scaling out for video wall processing. The Toslink jack terminal provides analogue L/R audio and digital SPDIF audio output. 5-pin phoenix jacket provides balanced L/R audiooutput, with PC Tool or RS232 commands to control the product for different wall display.

### Features:

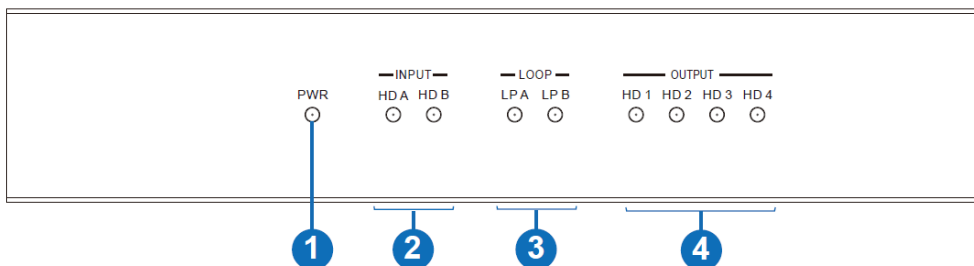
- HDMI 2.0 and HDCP 2.2 compliant
- Support multi-resolution up to 3840x2160@60Hz video output for video wall
- Support 2 channels HDMI loop out
- Support Bezel Compensation with two modes
- Support 180° rotation
- Support PIP on video wall
- Support RS-232 and TCP/IP control
- Support CEC control with displayer by PC Tool or commands

## Specifications:

Technical		
HDMI Compliance	HDMI 2.0	
HDCP Compliance	HDCP 2.2/1.4	
RS-232	Baud rate: 57600, data bit: 8, Stop bit: 1, no parity	
Input Video Formats	4096x2160p 24/25/30/50/60Hz	1400x1050 60Hz
	3840x2160p 24/25/30/50/60Hz	1366x768 60Hz
	1080p 24/25/30/50/60Hz	1360x768 60Hz
	1080i 50/60Hz	1280x1024 60Hz
	1920x1200 60Hz	1280x960 60Hz
	1680x1050 60Hz	1280x800 60Hz
	1600x1200 60Hz	1024x768 60Hz
	1440x900 60Hz	1280x720p50/60Hz
Audio Format	2.0 channel, 5.1 channel, LPCM, Dolby, AC3, DTS	
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)	
Mechanical		
Housing	Metal Enclosure	
Color	Black	
Dimensions	218mm (W)×146mm (D)×43mm (H)	
Weight	2Kg	
Supply Voltage	+12V/3A	
Power Consumption	25W (Max)	
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F	
Storage Temperature	-20°C ~ 70°C / -4°F ~ 158°F	
Relative Humidity	10%~50% RH (non-condensing)	

## Operation Controls and Function

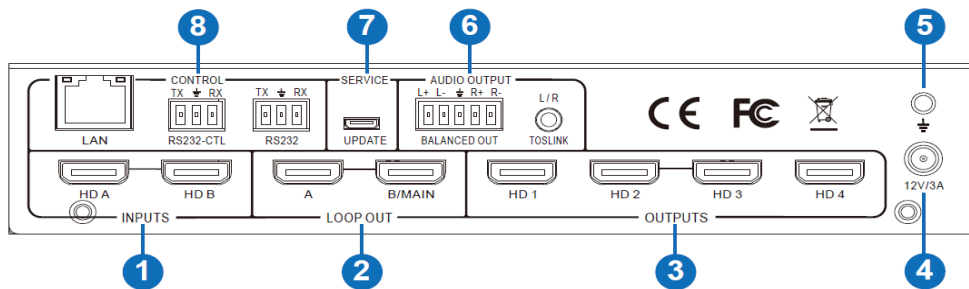
### Front Panel



No.	Name	Function Description
1	Power LED	Power LED will be on when the unit is powered on.

2	INPUT LED	The LED will be on when the corresponding HDMI input port is connected to active HDMI source device.
3	LOOP LED	The LED will be on when the corresponding LOOP OUT port is connected to HDMI display device.
4	OUTPUT LED	The LED will be on when the corresponding HDMI output port is connected to HDMI display device.

## Rear Panel



No.	Name	Function Description
1	INPUTS	HDMI signal input ports, connect to HDMI source device such as DVD or PS4 with HDMI cable.
2	LOOP OUT	HDMI signal loop out ports. Loop out HDMI A/B signal to downstream.
3	OUTPUTS	HDMI signal scaling output for video wall.
4	12V/3A	DC 12V/3A power supply port.
5	GND	Ground the product housing.
6	AUDIO OUTPUT	TOSLINK: <ul style="list-style-type: none"> <li>Analog L/R audio output 3.5mm Stereo Jack. 20Hz ~ 20kHz, 1.5Vrms max</li> <li>Digital SPDIF audio output</li> </ul> BALANCED OUT: Balanced audio output port. 5-pin phoenix connector, 20Hz ~ 20kHz, 1.5Vrms max.
7	SERVICE	Firmware update port.
8	CONTROL	RS232: Loop out RS232-CTL control command. RS232-CTL: External RS232 control, Baud Rate: 57600Data Bits:8, Parity: None Stop Bits:1 LAN: Network port for TCP/IP control. Connect to an active Ethernet link with an RJ45 cable.



# Connection Diagram

