



VWC-4K 409 Pro

Video Wall Controller

www.yiviven.com

● Product Overview

The VWC-4K 409 Pro video wall controller is a new generation HDMI 4K60Hz video wall controller designed by Yiviven AV. Supports 4x HDMI inputs, 2x DP inputs (simultaneous as HDMI IN1 and IN2), 9x HDMI outputs and 1x HDMI loop out. A single device, 4 inputs (2x mirrored DP) and 9 outputs (compatible with 1 in 9 out), can be combined in any number of video wall layout modes of landscape or portrait installation, and large-scale video wall can be connected by cascading more 409. It supports maximum input 3840x2160@60Hz and backwards compatible and maximum output 1920x1080@60Hz.

● Functional characteristics

- Pure hardware, real-time processing architecture without delay and with anti-static design.
- Supports single image, PIP (Picture in Picture), POP (Picture on Picture), PYP (Picture by Picture) or Quad-view. All video windows support free zooming, cross-screen roaming, re-sizing with arbitrary layers overlay.
- Supports signal cropping, which can remove black edges and crop the focused content to emphasize any details.
- Supports 16x video wall displaying modes such as horizontal screen 1x1 to 1x9; vertical screen 9x1 to 1x1; or mosaic type: 2x2, 2x3, 3x3, 2x4, 4x2... etc.
- Supports 4 channels of 4K60 inputs, 9x 1080p outputs
- Supports inputs and outputs rotation: any input can be rotated in 90°, 180° or 270°, and the first row of output can be rotated in 180°.
- Supports seamless real-time switching, without black screen intervals or lag during the signal switching.
- Supports IR remote control, RS232, TCP/IP control methods, with keyboard shortcuts quick operation.
- Optional audio de-embedded, audio output can follow the HDMI OUT 1 or all output ports.
- Supports full-channel 24bit, RGB 8:8:8 high color sampling depth, high-quality video image output.

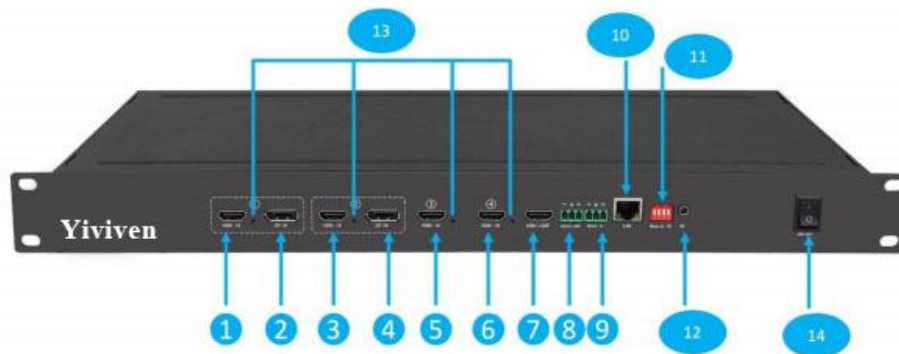
● Product Images



Operation Description

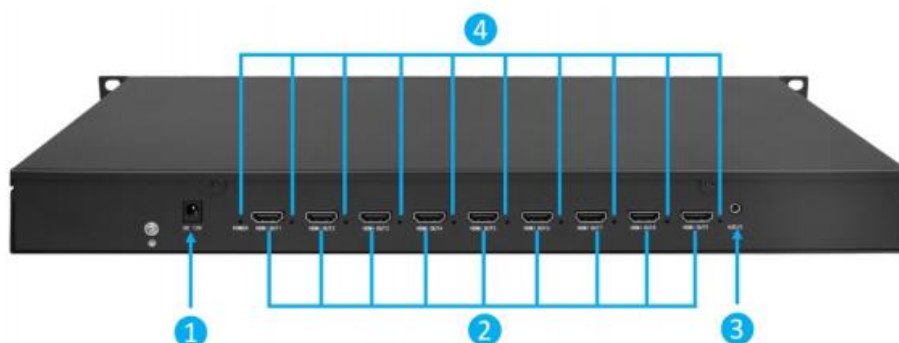
Product panel:

Front panel:



1	HDMI input, max. 4K60Hz	Mirrored Input #1, not in used simultaneously
2	DP input, max. 4K60Hz	
3	HDMI input, max. 4K60Hz	Mirrored Input #2, not in used simultaneously
4	DP input, max. 4K60Hz	
5	HDMI input, max. 4K60Hz	Input #3
6	HDMI input, max. 4K60Hz	Input #4
7	HDMI loopout, max. 4K60Hz	
8	RS232 Loop	
9	RS232 In	For Serial control
10	Network	For PC software control
11	DIP switch	
12	IR extender	For IR remote control
13	Status indicators	Input signal detection
14	Power ON/OFF	

Rear panel:



1	Power Supply, 12V 5A AC-DC
2	HDMI output #1-9, max. 1080P60Hz
3	Audio out, 3.5mm
4	Status indicators

● Specification

Model	VWC-4K 409 Pro
Inputs	HDMI 2.0 x4; DP 1.2 x2; HDCP 2.2
Input max. video frequency	600MHz
Max. input resolution	4096x2160@60Hz
Input color depth	30bit, RGB444, YUV444
Outputs	HDMI 1.3 x9 (≤15m) HDMI 2.0 x1 (Loopout)
Output max. video frequency	165MHz
Max. output resolution	1920x1080@60Hz, 1920x1200@60Hz
Output color depth	24bit, RGB444
Control	IR, RS232, PC software
Power	DC 12V/5A
Consumption	36W
Storage/operation temp.	-10~50°C/ 0~80°C
Chassis	Metal
Dimension	437x182x44mm
G.W/ N.W	3.7KG/ 3.1KG
Package list	12V/5A Power adaptor x1 IR Receiver x1 IR remote x1 RJ45 cable x1
Warranty	3 years

● Inputs & outputs connection

INPUTS: connect video resources to the input ports, max. 4 inputs. The HDMI #1 and DP #1 are input 1, can not be used simultaneously. The HDMI #2 and DP #2 are input 2, can not be used simultaneously.

OUTPUTS: Connect HDMI out 1 to 9 to displays. Display orders are shown as below:

1	2	3
4	5	6
7	8	9

● Network Connection

- Connect the VWC-4K 409 Pro to your computer through RJ45 network cable;
- Set the IP address of the controller to 192.168.1.xx (the default IP address of the VWC-4K 409 Pro is **192.168.1.192**), to make sure your PC is under the same IP address segment as the VWC-4K 409 Pro. User can change the IP address of the VWC-4K 409 Pro later in the software.
- Open the VWC-4K 409 Pro *control software*, click the refresh button, and select the right network card to connect the device.
- Click the *Find Device* button, the connected devices will appear in the table, and select the device you want to connect.
- Click the *Connect Device* button, and the host computer will automatically start synchronizing the date

● Applications

It is mainly used in industrial applications such as ultra-high-definition video surveillance, large-scale video walls, advertising, exhibitions, conference, and digital signage.



Single video wall mode



Flexible video wall+matrix mode



Flexible layers roaming mode



Side by side copy mode



Flexible layers overlay mode



Rotation 180°