DS-C12L Series Video Wall Controller

The video wall controller is a pure hardware image processing device based on Field Programmable Gate Array (FPGA), which supports multi-channel splicing and multi-channel signal switching display. With high processing performance, the device supports 4K@60 Hz signal input and output and multiple-device cascading for larger-scale splicing. Due to its good compatibility, LCD, DLP, and LED screens can be spliced into one virtual screen, which helps apply to various video wall application scenarios such as shopping malls, conference rooms and lecture halls.

Features and Functions

· Two HDMI inputs and signal switching by button, customizable input resolution

· Four HDMI outputs, and customizable output resolution

· Up to 4K@60 Hz input

· Up to 4-device cascading and 16-screen splicing

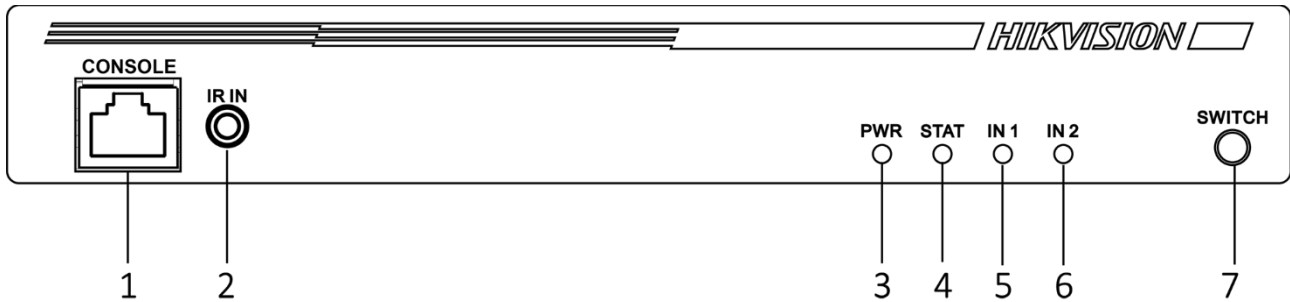· Multi-channel fusion input for ultra-high resolution signals

Technical Specification

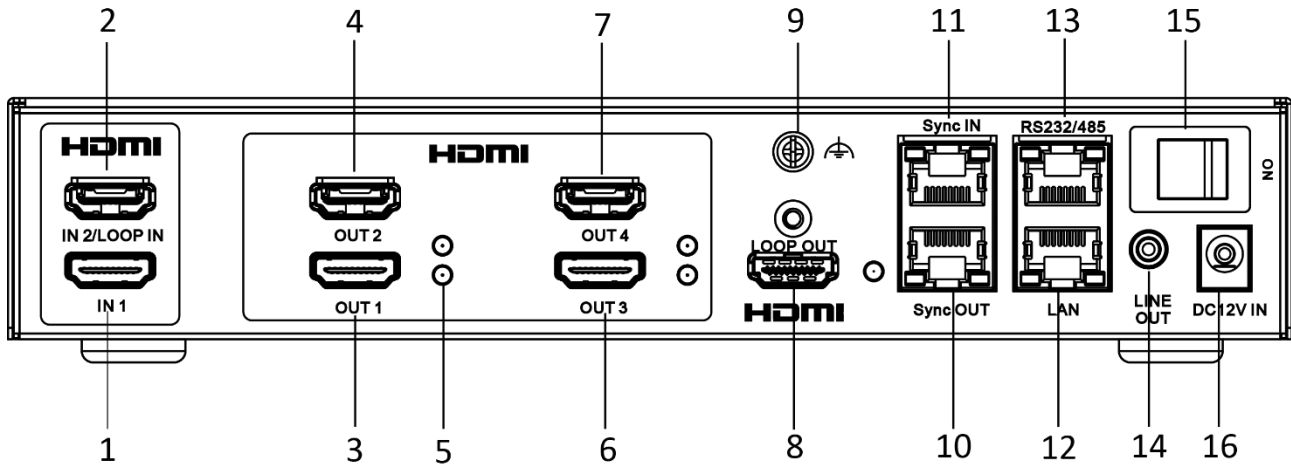| Model		DS-C12L-0204H
Input	Input Interface	2 × HDMI 2.0
	Input resolution	4096 × 2160@60 Hz, 4096 × 2160@30 Hz, 3840 × 2160@60 Hz, 3840 × 2160@30 Hz, 1920 × 1080@60 Hz, 1920 × 1080@50 Hz, 1920 × 1200@60 Hz, 1600 × 1200@60 Hz, 1680 × 1050@60 Hz, 1280 × 1024@60 Hz Input resolution customizable
Output	Output interface	4 × HDMI 2.0
	Output resolution	4096 × 2160@60 Hz 3840 × 2160@60 Hz 1920 × 1080@60 Hz, 1920 × 1200@60 Hz, 1080 × 1920@60 Hz, 1200 × 1920@60 Hz When HDMI OUT 1 is inputting signals of 4K@60 Hz, HDMI OUT 2, 3, and 4 are unavailable.
Other Interface	Network interface	1 × RJ45 10M/100M/1000Mbps self-adaptive Ethernet interface
	Audio output	1 × 3.5 mm Audio Interface
	Serial port	1 × RS-232 debugging port 1 × RS-232/RS-485 control port
	Sync port	1 × Sync IN interface 1 × Sync OUT interface
	Cascading interface	1 × LOOP OUT interface
	Infrared interface	1 × IR interface
General	Control method	Client, front panel
	Power supply	12 VDC (external)
	Power consumption	18 W
	Working temperature	−10°C to 45°C
	Working humidity	10% to 90% RH
	Dimension	222.8 mm × 41.8 mm × 154.2 mm (8.77 inch × 1.65 inch × 6.07 inch) (W × H × D)
	Weight	1.1 Kg (2.43 lb)

Physical Interface

Front Panel

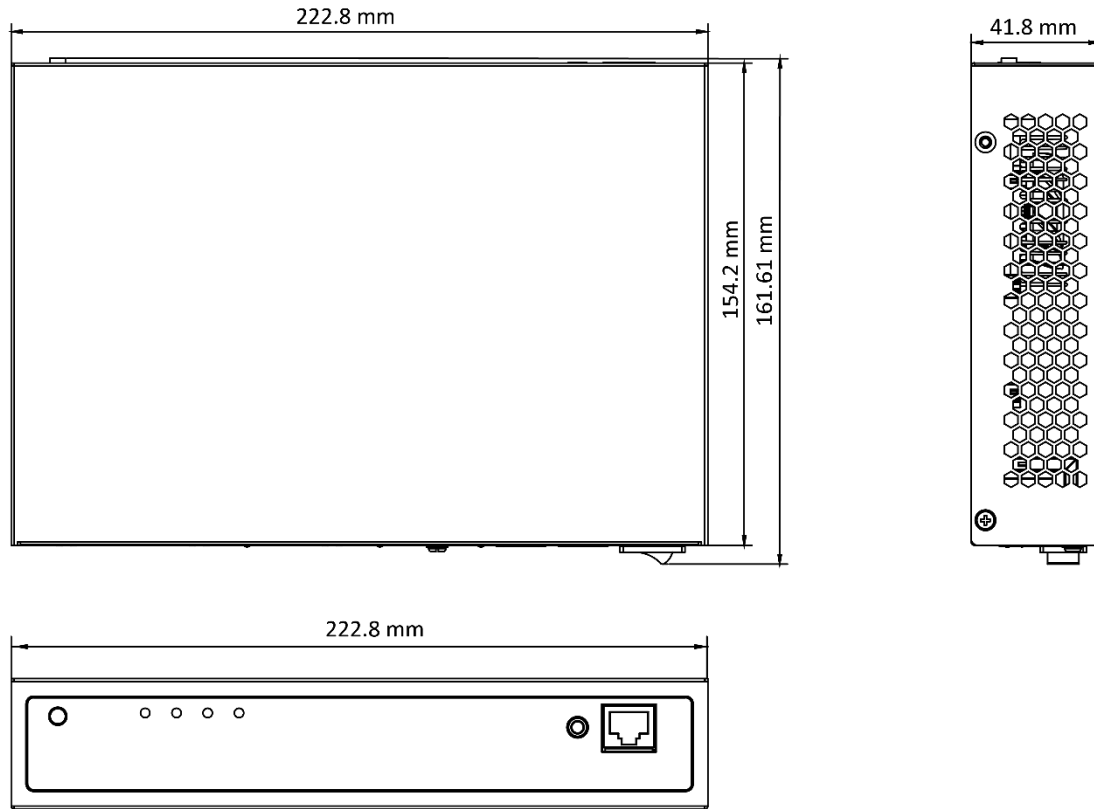| Index	Name	Description
1	CONSOLE	Debugging serial interface built in with an RS232-to-UART interface
2	IR IN	Reserved
3	PWR	Power indicator Turns steady red after power-on
4	STAT	System status indicator ● Unlit during startup or in the faulty state ● Turns green after startup
5	IN1	Indicator for the HDMI IN 1 interface ● Turns red when signals are inputting ● Turns yellow after the signals are decoded and displayed on the video wall
6	IN2	Indicator for the HDMI IN 2 interface ● Turns red when signals are inputting ● Turns yellow after the signals are decoded and displayed on the video wall
7	SWITCH	Used for switching signals between the HDMI IN 1 interface and the HDMI IN 2 interface

Rear Panel

Index	Name	Description
1	HDMI IN 1	HDMI input interface 1, up to 4K@60 Hz input
2	HDMI IN 2	HDMI input interface 2, up to 4K@60 Hz input Used for Loop input when multiple devices are cascaded. [i]Note When devices are cascaded, you can only use the two HDMI input interfaces of the master device to input signals.
3	HDMI OUT 1	HDMI output interface 1, up to 4K@60 Hz output [i]Note When HDMI OUT 1 is inputting signals of 4K@60 Hz, HDMI OUT 2, 3, and 4 are unavailable.
4	HDMI OUT 2	HDMI output interface 2, up to 4K@60 Hz output
5	HDMI Interface Indicator	Status indicator of HDMI OUT 1 interface ● Normal operating: green ● No signal output but displayed on the video wall: green ● No siganl output and displayed on the video wall: unlit ● Signal outputting but not displayed on the video wall: red ● Signal outputting and displayed on the video wall: yellow
6	HDMI OUT 3	HDMI output interface 3
7	HDMI OUT 4	HDMI output interface 4
8	HDMI LOOP OUT	HDMI loop output interface for device cascading, up to 4K@60 Hz output
9	Grounding screw	Used for device grounding
10	Sync OUT	Sync output interface for synchronizing signals between devices
11	Sync IN	Sync input interface for synchronizing signals between devices
12	LAN	10/100/1000 Mbps adaptive network interface, IEEE 802.3at PoE
13	RS232/RS485	RS232 and RS485 multiplexing port, configurable on the client
14	LINE OUT	Audio output interface

		Note When devices are cascaded, you can only use the line output interface of the master device to output audio signals.
15	DC 12 V Switch	Switch of 12 V/2 A power input, alternative to the PoE power supply method
16	DC 12 V IN	Interface for 12 V/2 A power input, alternative to the PoE power supply method

Dimension

222.8 mm

154.2 mm

161.61 mm

41.8 mm

222.8 mm

Distributed by

Available Model
DS-C12L-0204H

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