

DHI-DSCON2100-0410H

Dahua 1.5U EMBEDDED MULTI-SCREEN CONTROLLER



Series Overview

The Dahua Embedded Multi-Screen Controller DSCON2100 seamlessly combines decoding capabilities with screen splicing functionality. It boasts support for 4-channel input and an impressive 16-channel output. This device is capable of decoding up to 8K resolution, ensuring crystal-clear image quality. Conveniently, the front panel is equipped with multimedia display and intuitive buttons, facilitating effortless switching between various functions. Moreover, the controller provides a tailored EDID and can acquire resolution up to 4K@60Hz. It further excels with its video decoding, image stitching, and roaming features.

Functions

Multimedia Shortcut Actions

Supports controlling the device through the rotary knob and the shortcut keys on the front panel.

8K Decoding

Offers video decoding for up to 8K resolution.

4K Acquisition

Features 3 modes acquisition with a maximum resolution of 4K@60 Hz.

Lossless Visual Effect

Supports RGB888 acquisition, YUV444 decoding and RGB888 output.

Copying Signals for Multiple Channels

1080p acquisition can copy signals and send them to up to 16 video channels, and 4K acquisition can copy signals to send to up to 4 video channels.

- 10-ch HDMI signal output, and up to 1920 × 1080@60 Hz is supported.
- Supports 4-channel HDMI acquisition, with a maximum resolution of 4K@60 Hz. You can switch between the 3 modes: 1-channel 4K@60 Hz, 2-channel 4K@30 Hz, and 4-channel 1080p@60 Hz.
- Decodes 1 channel at 32 MP@30 fps, or 2 channels at 8 MP@60 fps, or 4 channels at 8 MP@30 fps, and is backward compatible.
- Outputs in ultra high and wide resolution, with a maximum of 3840 × 240 @60 Hz or 240 × 3840 @60 Hz.
- Includes a front panel LCD knob and shortcut keys for you to quickly change IP addresses, preset switches and tour, turn on and off the screen, switch between content, and display statuses such as the input status.
- Splits up to 9 windows for each screen, and supports M × N custom split.
- Opens up to 9 windows for each screen, and supports roaming.
- Supports configuring schemes, tour, scheduled schemes and setting the tour interval.
- Displays high-definition background images, and supports setting the default background color for the video wall.
- Supports customized EDID settings for the input port.

Scene

Suitable for scenes such as conference halls, exhibition halls, medium and large meeting rooms, shopping malls, supermarkets, monitoring centers, and small and medium command centers.

Embedded Multi-Screen Controller DSCON2100 | DHI-

DSCON2100-0410H

Technical Specification

System	
Main Processor	High-performance embedded processor
Operating System	Embedded Linux
Function	
Number of Video Output Channels	10-ch HDMI
Interoperability	ONVIF;Hikvision Private;Dahua Private
Audio Compression	PCM;G.711
Decoding Capability	H.264 shares the same decoding with H.265 Decodes up to 1-ch 32 MP@30 fps, 2-ch 12 MP@30 fps, 4-ch 8 MP@30 fps, 5-ch 6 MP@30 fps, 8-ch 4 MP@30 fps, 16-ch 2 MP@30 fps, and is backward compatible
Decoding Pixel	QCIF;CIF;2CIF;HD1;D1;960H;720p;1080p;3 MP;4 MP;5 MP;6 MP;8 MP;12 MP;32 MP
Output Resolution	The default resolution is 1920 × 1080@60 Hz. Supports 1024 × 768@60 Hz, 1280 × 720@60 Hz, 1280 × 1024@60 Hz, 1366 × 768@60 Hz, 1400 × 1050@60 Hz, 1600 × 900@60 Hz, and 1920 × 1080@60 Hz It also supports custom resolution output. The width can range from 128 to 3,840, and the height from 128 to 3,840. For custom resolution, it supports up to 3840 × 524@60 Hz or 524 × 3840@60 Hz
Bit Rate Type	Composite stream;video stream
Video Input	Supports 2-ch HDMI 2.0, 2-ch HDMI 1.3, and has 3 input modes. It also supports 1-ch 3840 × 2160@60 Hz or 2-ch 3840 × 2160@30 Hz or 4-ch 1920 × 1080@60 Hz. Supports the custom EDID
Multi-screen Display	Supports 1, 4, 6, 8, and 9 split, and M × N custom split, M × N ≤9.
Splicing	Up to 10 screens can be spliced together.
Screen Splicing	Up to 10 screens can be spliced together.
Window & Roam	Opens up to 90 windows and supports roaming.
Scheme Tour	Supports configuring schemes, tour, scheduled schemes and setting the tour interval.
Fine Pixel Pitch LED	The video output resolution can be customized and its fine pixel pitch LEDs can be accessed.
Background Image Color	Displays high-definition background images, and supports setting the default background color for the video wall.
Virtual LED	Displays customized OSD text, such as the location, font size, and scrolling direction.
Input Resolution	The HDMI 2.0 port supports the following resolutions: 3840 × 2160@60 Hz, 3840 × 2160@30 Hz, 2560 × 1440@60 Hz, 1920 × 1080@60 Hz, 1600×900@60 Hz, 1366 × 768@60 Hz, 1024 × 768@60 Hz, and 800 × 600@60 Hz; The HDMI 2.0 port supports custom resolutions. The width can be 600–4,092, and the height from 400–4,092. The HDMI 1.3 port supports the following resolutions: 1920 × 1080@60 Hz, 1600 × 900@60 Hz, 1366 × 768@60 Hz, 1024 × 768@60 Hz, and 800 × 600@60 Hz;

Input Resolution	The HDMI 1.3 port supports custom resolutions. The width can be 600–2,560, and the height from 400–2,560.
Port	
Video Output	10-ch HDMI 1.3
Audio Output	1-ch 3.5 mm plug
Alarm Input	1 channel
Alarm Output	1 channel
Network Port	1 × RJ-45 10/100/1,000 Mbps self-adaptive Ethernet port
RS-232	2 × RJ-45 port
USB	3 × USB port
RS-485	1

General	
Power Supply	100–240 VAC, 50/60 Hz
Power Consumption	≤60 W
Operating Temperature	–10 °C to +55 °C (+14 °F to +131 °F)
Operating Humidity	10%–95% (RH), non-condensing, 86 kPa–106 kPa
Product Dimensions	66 mm × 440 mm × 321 mm (2.60" × 17.32" × 12.64") (H × W × D)
Packaging Dimensions	572 mm × 482 mm × 192 mm (22.52" × 18.98" × 7.56") (L × W × H)
Gross Weight	7.36 kg (16.23 lb)
Net Weight	4.64 kg (10.23 lb)

Ordering Information		
Type	Model	Description
EMBEDDED MULTI-SCREEN CONTROLLER	DHI-DSCON2100-0410H	Dahua 1.5U EMBEDDED MULTI-SCREEN CONTROLLER



