DHI-DSCON8000

Dahua 5U EMBEDDED MULTI-SCREEN CONTROLLER

Series Overview

The DSCON Splicing Controller utilizes a high-performance FPGA framework, providing exceptional bandwidth for seamless operation. Its intuitive minimal interaction design allows you to customize video input and output cards. You can also manage screens by splicing images, and enabling window roaming and scene tour. Additionally, it performs image collection, displays background images and scrolls subtitles. This versatile controller is ideal for professional audio and video display applications, making it an excellent choice for exhibition halls, lecture rooms, meeting spaces, and outdoor advertising venues.

Functions

LED Sending Card

Supports the insertion of an LED sending card, allowing for the transmission of images to the receiving card and enabling control of the display image on the LED screen.

Ultra Low Delay

The end-to-end time delay, from signal collection to output, is less than 50 ms.

Stable Resolution Even at 4K

Supports acquiring and outputting signals at 4K@60 Hz, providing ultra-high resolution output through advanced video capture and splicing techniques.

Lossless Image Quality

Acquires and displays images and videos in RGB888 format using a 24-bit true color processing method, ensuring that videos are presented in high quality with lossless representation.

- Engineered with a standard 5U rack-mount architecture, it is sturdy with 13 slots. 2 slots for input, and 6 for output. The remaining 5 slots can be used for both input and output.
- Includes a main control card and power supply. It also supports the dual main control hot standby and dual redundant power supply, which can be purchased separately.
- Intelligent fan that automatically adjusts itself to moderate the temperature of the device, ensuring the stability and reliability of the system.
- Equipped with an 8-inch touch screen that facilitates operations.
- Supports mainstream video signal interfaces such as DP, HDMI, and DVI. Images can be cropped to solely display selected areas.
- Outputs signals through the HDMI port and LED sending network port.
- Acquires and outputs signals in 4K. It can also acquire and output audios and videos simultaneously.
- Features splicing, scaling, video integration, roaming, window opening, and layering.
- Up to 128 presets can be set for scenes. You can also customize the layout of each scene on the video wall.
- Offers subtitles that can be displayed on both single and spliced screens. You can customize the font style and color, character spacing, background color, and speed to suit your preferences.
- The device can be freely controlled through the webpage, desktop client, mobile client and network keyboard.
- Suitable for scenes such as conference halls, exhibition halls, meeting rooms and outdoor advertising venues.

Scene

Suitable for scenes such as conference halls, exhibition halls, meeting rooms and outdoor advertising venues.

Technical Specification

System

Main Processor	64 High-performance multi-core Processor
Operating System	Embedded Linux operating system
Slot	Includes a total of 15 slots. Each of the following items has its own slot: the switching card and main control card. The remaining 13 slots are for input and output cards: 2 for input, and 6 for output. The remaining 5 slots can be used for both input and output.
Cabinet	Included: Single power supply, single main control card and intelligent temperature control fan. Optional: Dual power supplies and dual main control cards.
Touch Screen	Equipped with an 8-inch touch screen with the resolution of 1280 × 800 that facilitates operations.

Port

USB	1 × USB 3.0 port
Network Port	2 × Gigabit ethernet ports and 2 × gigabit fiber ports
RS-232	2
RS-485	2
HDMI	1
Alarm Input Port	1 × alarm input port (reserved)
Alarm Output Port	1 × alarm output port (reserved)
Audio Input Port	1 × 3.5 mm jack port (reserved)
Audio Output Port	1 × 3.5 mm jack port and 1 set of spring-loaded terminal blocks
Type-C Port	1 × Type-C port

VI0401HH-DC8000

Video Input	4-channel HDMI 1.4 port
Audio Input	4-channel HDMI embedded audio port
Video Input Resolution	Acquires and inputs signals at the following resolutions: 1024 × 768@60 Hz, 1280 × 720@60 Hz, 1280 × 1024@60 Hz, 1366 × 768@60 Hz, 1440 × 900@60 Hz, 1600 × 1200@60 Hz, 1920 × 1080@60 Hz, 1920 × 1200@60 Hz, 3840 × 2160@30 Hz, and 4096 × 2160@30 Hz. You can customize resolutions. Width range: 800–4,094 pixels Height range: 600–4,094 pixels The maximum resolution at the width of 4,094 pixels is 4094 × 1140@60 Hz, while at the maximum height of 4,094 pixels, the resolution is 1024 × 4094 @60 Hz.
HDCP	HDCP 1.4 is supported.
Occupied Slot	Occupies 1 input slot

VI0201EHP-DC8000

Video Input	2-channel HDMI 2.0 port and 2-channel DP 1.2 port. You can select either one for the input channel.
Audio Input	Supports 2-channel embedded audio input through the HDMI port or DP port.
Video Input Resolution	Acquires and inputs signals at the following resolutions: 1024 × 768@60 Hz, 1280 × 720@60 Hz, 1280 × 1024@60 Hz, 1366 × 768@60 Hz, 1440 × 900@60 Hz , 1600 × 1200@60 Hz, 1920 × 1080@60 Hz, 1920 × 1200@60 Hz, 1920 × 2160@60 Hz, 3840 × 1080@60 Hz, and 3840 ×2160@60 Hz. You can customize resolutions. Width range: 800–8,192 pixels Height range: 600–8,192 pixels The maximum resolution at the width of 8,192 pixels is 8192 × 1140@60 Hz, while at the maximum height of 8,192 pixels, the resolution is 1024 × 8192@60 Hz.
HDCP	HDCP 2.2 is supported.
Occupied Slot	Occupies 1 input slot

VS20N-DC8000

Video Output	20-channel RJ-45 port.
Load Capacity	A single card can transmit images with up to 13 million pixels while a single network port can transmit images with up to 650,000 pixels.
Occupied Slot	Occupies 2 output slots.

VO0801HH-DC8000

Video Output	8-channel HDMI 1.3 port
Video Output Resolution	Supports the following output resolutions: 1920 × 1200@60 Hz, 1920 × 1080@60 Hz, 1600 × 1200@60 Hz, 1400 × 1050@60 Hz, 1600 × 900@60 Hz, 1366 × 768@60 Hz, 1280 × 1024@60 Hz, 1280 × 720@60 Hz and 1024 × 768@60 Hz. You can customize resolutions. Width range: 200–4,096 pixels Height range: 200–4,096 pixels The maximum resolution at the width of 8,192 pixels is 4096 × 480@60 Hz, while at the maximum height of 8,192 pixels, the resolution is 480 × 4096@60 Hz.
Occupied Slot	Occupies 1 output slot.

VO0201EH-DC8000

Video Output	2-channel HDMI 2.0 port
Video Output Resolution	Supports the following output resolutions: 4096 × 2160@60 Hz, 3840 × 2160@60 Hz, 2080 × 1560@60 Hz, 2048 × 1152@60 Hz, 1920 × 1200@60 Hz, 1920 × 1080@60 Hz, 1280 × 1024@60 Hz, 1280 × 720@60 Hz, 1024 × 768@60 Hz. You can customize resolutions. Width range: 200–8,192 pixels Height range: 200–8,192 pixels The maximum resolution at the width of 8,192 pixels is 8192 × 1000@60 Hz, while at the maximum height of 8,192 pixels, the resolution is 1000 × 8192@60 Hz.
Occupied Slot	Occupies 1 output slot.

Function

Max System Configuration	You can insert a total of up to 13 cards: 2 for input, 6 for output, and the remaining 5 can be used for either input or output cards. You can insert up to 7 input cards that support the following resolutions: 28-channel 1080p@60 Hz, or 14-channels 4K@60 Hz. You can insert up to 11 output cards that support the following resolutions: 88-channel 1080p@60 Hz, or 22-channel 4K@60 Hz. For sending cards, you can insert up to 6 cards with a total of 120 network ports to transmit images with up to 78 million pixels.

Layer Capability	Supports up to 56 layers in 2K resolution or 14 layers in 4K resolution.
Spliced Screen Function	Splicing and zoom, video fusion, roaming, windowing, and OSD.
Equipment Management	Supports management of local signals, and custom signal groups.
SDK	Supports secondary development, and provides platform SDK.
Control Mode	Operations can be performed directly through the device's touch screen. You can also connect to the device through the webpage, desktop client, mobile client and network keyboard.

General

Power Supply	100–240 VAC, 50–60 Hz，8 A，hot swapping
Power Redundancy	Dual (optional)
Power Consumption	≤ 550 W
Operating Temperature	–10 °C to +50 °C (+14 °F to +122 °F)
Operating Humidity	10%–90% (RH), non-condensing
Storage Temperature	–10 °C to +50 °C (+14 °F to +122 °F)
Storage Humidity	10%–90% (RH), non-condensing
Product Dimensions	221.8 mm × 484.0 mm × 416.0 mm (8.73" × 19.06" × 16.38") (H × W × D)
Packaging Dimensions	443 mm × 645 mm × 585 mm (17.44" × 25.39" × 23.03") (H × W × D)
Gross Weight	20.6 kg (45.42 lb)
Net Weight	14.93 kg (32.92 lb)
Series	DSCON8000
Type	Server

Ordering Information

Type	Model	Description
Splicing Controller	DHI-DSCON8000	Dahua 5U EMBEDDED MULTI-SCREEN CONTROLLER
Accessories (Optional)	DHI-VI0201EHP-DC8000	Dahua 0.5U DSCON INPUT CARD
	NSW-DC8000-S13	1U DSCON SWITCHING CARD
	DHI-VO0201EH-DC8000	Dahua 0.5U DSCON OUTPUT CARD
	VS20N-DC8000	1U DSCON SENDING CARD
	DHI-VO0801HH-DC8000	Dahua 0.5U DSCON OUTPUT CARD
	DHI-MBC-DC8000-S13	Dahua 0.5U DSCON Main Card
	DHI-VI0401HH-DC8000	Dahua 0.5U DSCON INPUT CARD

Accessories

Optional:

DHI-MBC-DC8000-S13
Dahua 0.5U DSCON Main Card

DHI-VI0201EHP-DC8000
Dahua 0.5U DSCON INPUT CARD

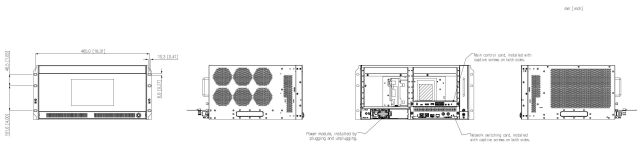
DHI-VI0401HH-DC8000
Dahua 0.5U DSCON INPUT CARD

DHI-VO0201EH-DC8000
Dahua 0.5U DSCON OUTPUT CARD

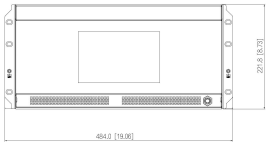
DHI-VO0801HH-DC8000
Dahua 0.5U DSCON OUTPUT CARD

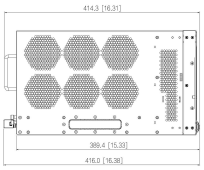
NSW-DC8000-S13
1U DSCON SWITCHING CARD

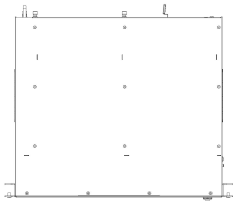
VS20N-DC8000
1U DSCON SENDING CARD



Dimensions (mm[inch])







© 2025 Dahua. All rights reserved. Design and specificatons are subject to change without notce.
Pictures in the document are for reference only, and the actual product shall prevail.