

# DHI-NVD1205DU-4I-8K Dahua 12CH UHD NETWORK VIDEO DECODER



### System Overview

Ultra HD Network Video Decoder is an outstanding decoder that has strong decoding capabilities and can manage a high number of concurrent channels. It works with low-latency cameras and performs low-latency decoding, meeting the needs of a variety of industries, such as the steel industry. The device acquires ultra HD videos of 4K@60 fps, and supports video walls displaying images from the computer and video conferences.

### Functions

### Strong Decoding Capability

Supports concurrent decoding of up to 3-channel 8K@60 fps or 108-channel 1080p@30 fps and has strong decoding capabilities and can manage a high number of concurrent channels.

### Ultra-low Latency of Decoding

The device works with low-latency cameras and easily performs lowlatency decoding at 60 to 80 ms, meeting the requirements of a variety of industries such as the steel industry.

#### **Ultra HD Acquisition**

The device acquires ultra HD videos of 4K@60 fps, and supports video walls displaying images from the computer and video conferences.

### Ultra HD Display

Displays Ultra HD videos of 8K@60 fps, producing smooth videos with clear, vivid colors.

- 12-channel HDMI video output.
- 8-channel HDMI audio output.
- Decodes videos to multiple video stream decoding standards, such as MPEG2, MPEG4, H.264, H.265, SVAC and MJPEG.
- Decodes video streams to multiple resolutions, including QCIF, CIF, 2CIF, HD1, D1, 720p, 1080p, 3 MP, 5 MP, 6 MP, 8 MP, 12 MP and 32 MP.
- Synchronously decodes to 3-channel 8K@60 fps, 27-channel 4K@30 fps, 108-channel 1080p@30 fps or 432-channel D1@30 fps videos.
- $\cdot$  Splits to 1, 4, 6, 8, 9, 16, 25 and 36 windows, and supports M  $\times$  N custom split.
- The following resolutions are supported through the HDMI output port: 3840  $\times$  2160, 1920  $\times$  1080, 1280  $\times$  1024, 1280  $\times$  720 and 1024  $\times$  768.
- $\cdot$  Up to 3840  $\times$  2160 is supported for the DP and HDMI input ports.

### Scene

It is ideal for commercial displays, and is widely used in monitoring centers and video conferences.

## NVD\_1.5U | DHI-NVD1205DU-4I-8K

### **Technical Specification**

Network Port

RS-232

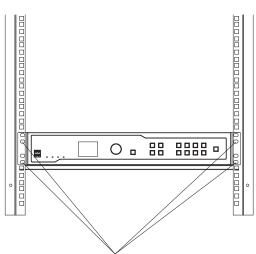
Technical Specification	
System	
Main Processor	High-performance embedded processor
Operating System	Embedded LINUX
Function	
Number of Video Output Channels	12 × HDMI
Video Compression	SVAC; H.264; H.265; MJPEG; MPEG4; MPEG2
Audio Compression	PCM; G711; AAC
Decoding Capability	Performs H.264 and H.265 decoding (1080p@60 fps by default for output ports). Synchronously decodes to 3-channel 8K@60 fps, 27-channel 4K@30 fps, 108-channel 1080p@30 fps or 432-channel D1@30 fps videos.
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	1024 × 768@60 fps; 1280 × 720@60 fps; 1280 × 1024@60 fps; 1920 × 1080@60 fps; 1920 × 1200@60 fps; 2048 × 1152@60 fps; 3840 × 2160@30 fps; 3840 × 2160@60 fps
Bit Rate Type	Composite stream; video stream
Video Input	2 × DP; 2 × HDMI
Multi-screen Display	1/4/6/8/9/16/25/36 window splits per screen. Supports M $\times$ N custom split, M $\times$ N $\leq$ 36.
Screen Splicing	Splices together up to 12 screens.
Window & Roam	Opens up to 36 windows, and supports roaming.
Scheme Tour	Supports configuring schemes, tour, scheduled schemes and setting the tour interval.
Small-pitch LED	The video output resolution can be customized and small-pitch LEDs can be accessed.
Background Image Color	Displays high-definition background images, and supports setting the default background color for the video wall.
Enable AI Function	Displays people, their faces, motor and non-motor vehicles, crowd density and AI rules on a large screen.
Virtual LED	Supports OSD and configuring the position and font size of its content.
Input Resolution	800 × 600@60 fps; 1024 × 768@60 fps; 1152 × 864@60 fps; 1280 × 720@60 fps; 1280 × 800@60 fps; 1280 × 960@60 fps; 1280 × 1024@60 fps; 1366 × 768@60 fps; 1440 × 900@60 fps; 1680 × 1050@60 fps; 1920 × 1080@60 fps; 3840 × 2160@30 fps (supported only by HDMI2); 3840 × 2160@60 fps (supported only by DP2), 4096 × 2160@30 fps (supported only by DP2)
Port	
Video Output	12 × HDMI
Audio Output	3.5 mm port, 8 × HDMI
Alarm Input	4 (5V TTL signal input)
Alarm Output	4 relay output (Linked output of 30 VDC 1A and 125 VAC 0.5A)
Notwork Port	2 x gigabit optical 2 x gigabit electrical

 $2 \times gigabit optical, 2 \times gigabit electrical$ 

3 (1 × DB9, 2 × RJ-45)

USB	4 (2 × USB 3.0, 2 × USB 2.0)
RS-485	1
General	
Power Supply	100–240 VAC, 50 Hz/60 Hz
Power Consumption	≤100 W
Operating Temperature	–10 °C to +55 °C (+14 °F to 131 °F)
Operating Humidity	10%–95% (86 kPa–106 kPa)
Product Dimensions	70 mm × 408 mm × 440 mm (2.76" × 16.06" × 17.32") (1.5 U) (H × W × D)
Packaging Dimensions	200 mm × 508 mm × 557 mm (7.87" × 20.00" × 21.93") (H × W × D)
Gross Weight	7.5 kg-7.8 kg (16.53 lb-17.20 lb)
Net Weight	5.5 kg-5.8 kg (12.13 lb-12.79 lb)

### Installation

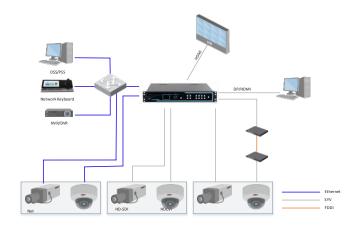


Attach the floating nuts to the bars with square holes, and then fix the device to the bars with screws

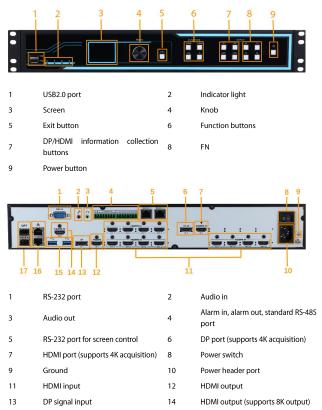
### Dimensions (mm [inch])

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### Application



### **Panels**



- 2 network ports (10/100/1000 Mbps 16 Ethernet port)
- 2 USB3.0 ports 17 2 gigabit optical ports

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