

DS-6916UDI(C) Ultra High Definition Decoder





Developed on the basis of embedded hardware platform, the DS-69XXUDI(C) ultra high definition (UHD) decoder is a new generation decoder for HD network cameras and can be widely used in various video security system projects. It uses the HDMI 1.4 port and BNC port for decoded data output, supports various decoding formats including H.265, H.264, MJPEG, Smart264, and Smart265, supports decoding the H.265 or H.264 video of no more than 32 MP, and supports 4K video output.

Video Input

- Supports the video input from the computers and video conference terminals, and 4K HDMI signal input.
- Supports using network cameras, NVRs, and other devices as network signal sources.
- Supports embedded HDMI audio input. The audio input supports 16 bit, 48 KHz or 32 KHz sampling rate, dual audio channel, and stereo.
- Supports signal input via the HDMI 1.4 port, 2 channels of 1080p@50/60 Hz input, or 1 channel of 4K@30 Hz input.
 Video Output
- Supports signal output via the HDMI 1.4 port, and 4K (3840 × 2160@30 Hz) UHD video output.
- Supports embedded HDMI audio output and external audio output.
- Adopts frame synchronization technology to ensure that the images of all HDMI output ports are completely synchronized, with complete picture and smooth playback, and without lag, frame loss, tearing, or splicing.
- Supports the maximum LED loading capacity of 2.6 MP per port.

Video Encoding and Decoding

- Supports H.264 encoding format (the default), H.265 encoding formats, sub-stream encoding, and main stream encoding.
- Supports decoding the network cameras, NVRs and other network sources, decoding sub-stream and main stream, and auto-switching to sub-stream when the window division reaches the threshold.
- Provides 256 video decoding channels and supports simultaneously decoding 128 channels of 2 MP video or 256 channels
 of 720p video to the video wall.
- Supports decoding streams of no more than 32 MP resolution.
- Supports the mainstream decoding formats such as H.264, H.265, Smart264, Smart265, MJPEG, and HIK264, and mainstream encapsulation formats such as PS, TS, ES, and RTP.
- Supports audio decoding of G.722, G.711A, G.726, G.711U, MPEG2-L2, AAC, MP3, and PCM.
- Supports rotate mode decoding of front-end camera videos that are of no more than 2560 × 1440 resolution.
- Supports active decoding and passive decoding.
- Supports decoding the encrypted stream, multi-channel stream, and smart stream, editing and switching stream, and
 prompting for decoding exceptions.
- Supports decoding the recorded video files to the video wall.



Video Wall Function

- Supports splicing signal sources on the video wall, opening the signal source window, and performing signal source window roaming, scene switching, and window switching. Each screen supports four 1080p signal source windows or two 4K signal source windows.
- Each signal source window can be divided into 1, 2, 4, 6, 8, 9, 12, 16, 25, and 36 windows.
- Supports up to 64 scenes. You can customize the video wall layout and save it as a scene.
- Supports the auto-switching of up to 100 view groups on the HCP client. You can customize the camera location, scenes and time for each view group.
- Supports double clicking the divided sub-window to zoom in and double clicking again to zoom out.
- Supports displaying output channel number.
- Supports PTZ control of network signal sources, including 8-direction control, auto-scanning, aperture adjustment, focal length change, focusing, and preset calling.
- Supports setting the live view status, decoding status, switching status, audio status, and location of the signal source window.
- Supports video recording playback. You can set the playback status and select time to play back.
- Supports using the HCP client to capture images on the screen and display the captured images on the video wall.
- Supports the live view of network signal sources over RTP or RTSP.

Device Access

- Supports docking with 32 MP PanoVu series cameras, fisheye cameras, conventional front-end network cameras, DVRs, NVRs, XVRs, and mainstream third-party security devices.
- Supports integrating multiple decoding devices into one decoding device on the platform by using the software development kit (SDK).
- Supports using the ONVIF protocol to access the decoder.
- Supports interaction with LCD screen, including the screen information acquisition, image mode configuration, serial port control, time synchronization, backlight parameters configuration and acquisition, output port auto-binding, and error code reporting.
- Supports IPv4 and IPv6 protocols and the simultaneous access of IPv4 network sources and IPv6 network sources.
- Supports using the network keyboard or serial port keyboard to control the device, and to realize sub-window changing, group operation and auto-switching, scene changing, PTZ control, and video wall playback. Maintanence

- Supports using the PC client and web browser of Chrome 45 and higher version to access and control the device.
- Provides built-in Gigabit switching network, and supports auto-adaption between the optical port and electrical port, and supports NAT.
- Supports obtaining and configuring parameters remotely, importing and exporting parameters remotely, and obtaining system running status and system logs remotely.
- Supports restarting the device remotely, restoring the default settings, and upgrading the device.
- Supports auto detection and alarm for failures, including network disconnection, IP conflict, illegal access, temperature threshold exceeding, decoding signal source exception and device exception.
- Supports user permission management, allowing users with different permissions to use designated resources and operate designated video wall modules.
- Supports visualization maintenance. The maintenance interface displays the network topology structure and keynote network status of main control system and subsystems.
- Supports manual time synchronization and NTP time synchronization.



Specification

Product Model			
Product Model	DS-6916UDI(C)		
Interface			
Network Interface	 2 × 10/100/1000 Mbps self-adaptive Ethernet interface (RJ-45) 2 × 100 BASE-FX/1000 BASE-X port Supports the self-adaption between the optical port and electrical port. 		
Alarm In Interface No.	8 channels of alarm input		
Alarm Out Interface No.	8 channels of alarm output		
Serial Interface	1 × RS-232 serial port (RJ-45) + 1 × RS-485 serial port		
USB Interface	2 × USB 2.0 port		
Power			
Power Interface	Embedded 220 VAC		
Device Consumption	< 150 W		
Video Wall			
Video Walls	1		
Video Wall Scale	≤16		
Split Window	Supported		
Window Division per Output Port	1, 2, 4, 6, 8, 9, 12, 16, 25, 36		
Input Source Copy Capability	Not supported		
Layers Per Screen	4 × 1080p or 2 × 4K		
Layers per Device	Layers Per Screen × Output Interface(s)		
Scenes	64		
Plans	100 view groups on the HCP client		
General			
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)		
Working Humidity	0% RH to 90% RH		
Net Weight	≤ 6.4 kg (14.11 lb)		
Gross Weight	≤ 7.8 kg (17.20 lb)		
Dimensions ($W \times H \times D$)	440 mm × 88 mm × 321 mm (17.32 inch × 3.46 inch × 12.64 inch)		
Packing List	$1 \times$ decoder, $1 \times$ regulatory compliance and safety information manual, $1 \times$ mounting bracket, $1 \times$ power cord, $4 \times$ pads, $1 \times$ grounding cable		
Audio Input			
Audio Input Interfaces	2		
Audio Input Interface Type	Embedded HDMI		
Video Input			
Video Input Interfaces	2		
Video Input Interface Type	HDMI 1.4		
Max. Input Resolution	4K (only in odd-numbered port)		



Video Input Resolution	3840 × 2160@30 Hz, 1920 × 1200@60 Hz, 1920 × 1080@60 Hz, 1920 × 1080@50 Hz, 1280 × 720@60 Hz, 1280 × 720@50 Hz, 1600 × 1200@60 Hz, 1280 × 960@60 Hz, 1680 × 1050@60 Hz, 1440 × 900@60 Hz, 1366 × 768@60 Hz, 1280 × 1024@60 Hz, 1024 × 768@60 Hz		
	Supports custom resolution.		
	For 60 Hz input, width ranges from 800 to 1920, and height ranges from 600 to 1200.		
	For 30 Hz input, width ranges from 800 to 3840, and height ranges from 600 to 2160.		
	Width: 4 alignment, height: 2 alignment.		
Video Encoding			
Video Encoding Format	H.264 (default), H.265		
Video Encoding Channels	2		
Video Encoding Capability	1 channel of 4K@30 Hz or 2 channels of 1080p@60 Hz		
Audio Encoding			
Audio Encoding Format	G722.1, G711_U, G711_A, AAC		
Video Output			
Video Output Interface Type	HDMI 1.4		
Video Output Interface(s)	16		
Max. Output Resolution	4K		
	3840 × 2160@30 Hz, 2560 × 1440@30 Hz, 1920 × 1200@60 Hz, 1920 × 1080@60 Hz,		
Video Output Resolution	1920 × 1080@50 Hz, 1680 × 1050@60 Hz, 1600 × 1200@60 Hz, 1280 × 1024@60 Hz,		
	1280 × 720@60 Hz, 1280 × 720@50 Hz, 1024 × 768@60 Hz		
Video Output Interface (BNC)	4 channels of CVBS output (BNC port)		
	PAL: 704 × 576@25 Hz		
Video Output Resolution (BNC)	NTSC: 704 × 480@30 Hz		
	Single port load: 2600000,		
Loading Capacity for Video	Width: 144 - 4096,		
Output to LED	Height: 144 - 2160,		
	Width must be a multiple of 2 and height must be a multiple of 2		
Video Decoding			
Video Decoding Format	H.264, H.265, SmartH.264, SmartH.265, MJPEG		
Video Decoding Resolution	Up to 32 MP		
Video Decoding Channel(s)	256		
	1) H.264/H.265 format:		
	Support decoding 8-channel 32 MP/24 MP(30 fps), 16-channel 12 MP(30 fps),		
	32-channel 8 MP(30fps), 40-channel 6 MP(30 fps), 64-channel 4 MP(30 fps),		
	128-channel 1080p(30 fps), 256-channel 720p and lower resolution in real time.		
Video Decoding Capability			
	Every four output ports (HDMI output ports 1 to 4, 5 to 8, 9 to 12, and 13 to 16) form a		
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Video Decoding Capability Audio Output Audio Output Interface(s)	 group and 4 groups share the decoding capabilities. Each group supports up to 4-channel smart decoding or 4-channel encrypted stream decoding. The smart decoding allows the device to decode the smart alarm events from the network cameras. 2) MJPEG format: 16-channel of 1080p and lower resolution 		

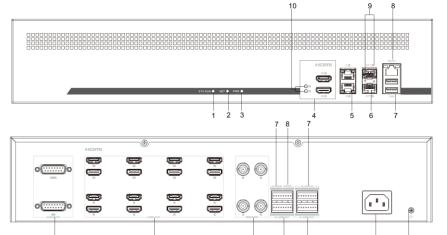


Audio Decoding

Audio Decoding Format

G711A, G711U, G722.1, G726-16/U/A, MPEG, AAC-LC, PCM

Physical Interface



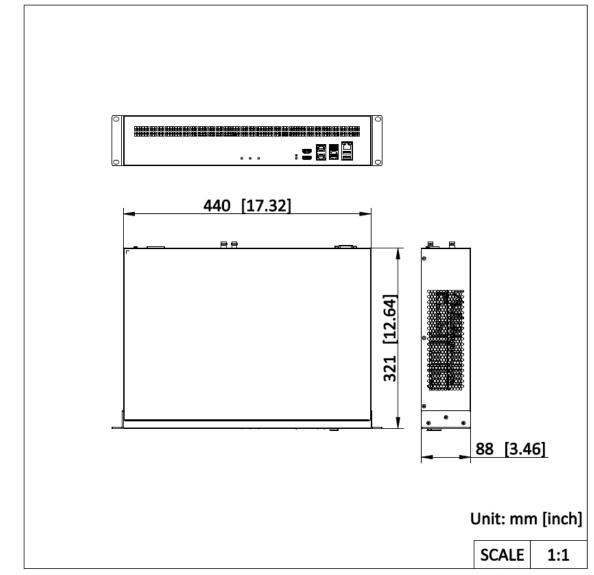
Label on Front Panel	1 2 Description	Label on Rear Panel	5 6 Description
SYS RUN	System running LED. It is		
	steady green when the	AUDIO OUT	Audio output port
	system runs normally.		
NET	Internal network LED. It is	HDMI OUT	HDMI output port
	steady green when the		
	internal network of the		
	device is normal.		
PWR	Power status LED. It is		
	steady green when the	VIDEO OUT	Video output port
	device is powered on.		
HDMI IN 1	HDMI input port 1. Its LED is		
	steady green when the	RS485	RS-485 port
	signal is connected.		
HDMI IN 2	HDMI input port 2. Its LED is		
	steady green when the	ALARM IN	Alarm input port
	signal is connected.		
G 1	1000 Mbps electrical port 1	ALARM OUT	Alarm output port
G 2	1000 Mbps electrical port 2		
OPT 1	1000 Mbps optical port 1		
OPT 2	1000 Mbps optical port 2		
RS-232	Device debug serial port		
USB	USB 2.0 port		

Available Model

DS-6916UDI(C)



Dimension



See Far, Go Further



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