HIKVISION®

DS-6901UDI(C)
Ultra High Definition Decoder

Video Input
- Support network camera, NVR, and other devices to serve as network signal source

Video Output
- Support 4K (3840 × 2160@30 Hz) UHD video output via HDMI 1.4 output interface
- Support two audio output methods: embedded HDMI audio output and external audio output
- Adopt frame synchronization technology to ensure complete synchronization of images from all output interfaces, complete pictures, smooth playback, and without lag, frame loss, tearing or splicing

Video Encoding and Decoding
- Support H.264 and H.265 encoding of input boards, and sub-stream and main stream encoding; the default encoding format is H.264
- Support network cameras, NVR and other network sources decoding of output boards, sub-stream and main stream decoding including H.264, H.265, Smart264, Smart265, MJPEG, HIK264 and main encapsulation formats such as PS, RTP, TS, ES
- Support encrypted stream, multi-channel stream, and smart stream decoding, stream editing and switching, and auto switching to the sub stream when the divided window quantity reaches the upper limit
- Support decoding exception prompt
- Support up to 16 video decoding channels and simultaneously decoding of 16-ch 2 MP video to the video wall
- Support decoding streams of multiple resolution no more than 32 MP
- G.722, G.711A, G.726, G.711U, MPEG2-L2, AAC, MP3 audio compression
- Support rotate mode of front-end cameras decoding and up to 2560 × 1440 decoding output
- Two decoding modes: active decoding and passive decoding
- Support remote video files' decoding output

Video Wall
- Support single video wall splicing, window opening, window roaming, scene switching, and window switching

- Support up to 3 1080p or 1.5 4K signal source windows per screen and each signal source window can be divided into 1, 2, 4, 6, 8, 9, 12, and 16 windows
- Support up to 64 scenes. You can customize the video wall layout and save it as a scene
- Support 256 auto-switching plans. You can customize the camera, scenes, and time for each plan
- You can double click the roaming window to zoom in and zoom out for one roaming window or divided roaming sub-window
- Support displaying output channel number
- Support operating network signal sources on video wall in eight directions, including auto-scanning, adjusting aperture, changing the focal length, focusing, and calling preset
- Support starting/stopping the live view of the window, starting/stopping decoding, starting/stopping switching windows, turning on/off the sound, displaying the window on the top/bottom layer, and other operations
- Support video recording playback. You can start or stop playback and select the video recording time
- Support using smart wall clients to cast the screen on the wall
- Support the live view of network signal sources over RTP/RTSP

Device Access
- Support docking with 32 MP PanoVu series cameras, fisheye cameras, and conventional front-end network cameras, DVR, NVR, and XVR
- Support complete software development kit (SDK) for third-party developers
- Support using the ONVIF and GB28181 protocol to access the decoder
- Support LCD information interactive, including display information acquirement, image settings, series ports control, time synchronization, backlight parameters configuration and acquirement, output port auto-binding, error code reporting

Maintanence
- Support using network keyboard or serial port keyboard to control the device, and support window switching, group operation and auto-switching, scene switching, PTZ control, and video wall playback via keyboard
- Support the access and operation via PC client and Web client
- Support Chrome 45+
- Use the built-in gigabit switching network
- Supports optoelectronic adaptation, link aggregation, and NA
- Support remote parameters configuration, getting system status and logs
- Support daily maintenance such as remote restart, restore default settings and upgrading
- Support auto fault detection and device exception alarm, including network disconnection, IP conflict, illegal access, temperature overshoot, fan status exception, decoding signal source exception and device exception
- Support user permission management, allowing users with different permissions to use designated resources and operate designated video wall modules
- Support visualization in operation and maintenance by displaying the network topology structure and keynote network status of main control units (MCU) and service boards
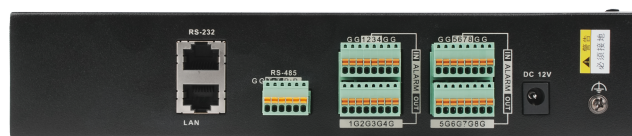- Support NTP time synchronization and manual time synchronization

▪ Specification

Product Model	
Product Model	DS-6901UDI(C)
Interface	
Alarm In	8-ch alarm in
Alarm Out	8-ch alarm out
Serial Interface	RS-232 (RJ45) × 1, RS-485 × 1
Network Interface	RJ45 × 1, 10 M/100 M/1000 Mbps self-adaptive Ethernet interface
Video Wall	
Video Walls	1
Video Wall Size	1
Layers Per Screen	1080p × 3 or 4K × 1.5
Layers	Layers Per Screen × Output Interface(s)
Split Window	yes
Scenes	1
Split Screen	1, 2, 4, 6, 8, 9, 12, 16
Scene Auto-Switch Delay	3 s
Background Images	Background color Only
Subtitles	N/A (optional to support)
Delay of Displaying Local Signal Source on Video Wall	120 ms
Delay of Displaying Decoded Signal Source on Video Wall	120 ms
Auto-Switching Plans	Support 256 auto-switching plans
General	
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working Humidity	10% RH to 90% RH
Net Weight	≤ 1.12 kg (2.47 lb)
Gross Weight	≤ 1.663 kg (3.67 lb)
Power Consumption	< 15 W
Packing List	Decoder × 1 Qualification Card/Warranty Card/RoHS × 1 Power Cord × 1 Grounding Wire × 1
Dimensions (W × H × D)	220 mm × 148 mm × 45 mm (8.66'' × 5.83'' × 1.77'')
Power Supply	External 12 VDC
Audio Input	
Audio Input Interface Type	HDMI embedded or DB15 to BNC independent audio output
Audio Encoding	
Audio Encoding Format	G711A/G711U/G722.1/ G726-16/U/A /MPEG/AAC-LC
Video Output	
Max. Output Resolution	4K
Video Output Interface Type	HDMI 1.4
Video Output Interface(s)	1

Video Output Resolution	3840 × 2160@30 Hz, 2560 × 1440@30 Hz, 1920 × 1200@60 Hz, 1920 × 1080@60 Hz, 1920 × 1080@50 Hz, 1680 × 1050@60 Hz, 600 × 1200@60 Hz, 1280 × 1024@60 Hz, 1280 × 720@60 Hz, 1280 × 720@50 Hz, 1024 × 768@60 Hz
Video Output Resolution (BNC)	BNC: PAL: 704 × 576, NTSC: 704 × 480
Video Output Interface (BNC)	1-ch BNC
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)	32
Video Decoding Capability	Support 1-ch 32 MP/24 MP/2-ch 12 MP/4-ch 8 MP/5-ch 6 MP/ 9-ch 4 MP/16-ch 1080p and below real-time decoding
Audio Output	
Audio Output Interface Type	embedded HDMI audio output or BNC
Audio Output Interfaces	1
Audio Decoding	
Audio Decoding Format	G711A, G711U, G722.1, G726-16/U/A, MPEG, AAC-LC
Encoding and Decoding	
Audio Decoding Format	G711A, G711U, G722.1, G726-16/U/A, MPEG, AAC-LC
Decoding	
Decoding Resolution	Up to 32 MP

▪ Physical Interface

Front Panel	Description	Rear Panel	Description
PWR	Power supply indicator, red for normal working status	RS-232	RS-232 Serial Port
LINK	Network connection indicator, yellow and green for normal working status	LAN	LAN 10/100/1000 Mbps selfadaptive Ethernet interface, as a management network interface
Tx/Rx	Data transmitting status Indicator, flashing yellow for normal working status	RS-485	RS-485 Interface
HDMI	HDMI Output Interface	ALARM	8-ch Alarm In/Out
AUDIO OUT	Audio Output Interface	DC12 V	Power Supply DC 12 V
VIDEO OUT	BNC Video Output Interface		

▪ Available Model

DS-6901UDI(C)

DS-6901UDI(C)/ FRANCE SAS

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