

## DS-6901UDI Ultra High Definition Decoder



DS-6900UDI Series decoders are developed on the basis of embedded hardware platform. DS-6901UDI supports HDMI 1.4, BNC output port decoding, and multiple video stream formats, like H.265, H.264, MJPEG, H.264+ and H.265+ with strong decoding performance. It supports H.265/H.264 decoding with resolution of no more than 3200 W and 4K ultra high definition outputs. It is a new generation of decoder launched by our company for HD network cameras, which can be widely used in various video security system projects.

### Video Input

- Support network camera, NVR, and other device types as network signal source inputs

### Video Output

- Support HDMI 1.4 video signal output with 4K (3840 × 2160@30 Hz) ultra high definition output.
- Support two audio output methods: HDMI embedded audio and external audio output.
- Adopting frame synchronization technology to ensure complete synchronization of images from all output ports, complete graphics, smooth playback, no jamming or stuttering, no tearing or stitching.

### Video Encoding and Decoding

- Adopting H.264/H.265 encoding standard, the default is H.264, supporting sub-stream and main stream encoding.
- Support decoding of network sources such as IP cameras/NVR, decoding of sub-stream and main stream, and set automatic sub-stream extraction for segmented images.
- The device has 16 video decoding channels, supporting 16-ch 200 W video decoding on the wall simultaneously.
- Support decoding streams of multiple resolution no more than 3200 W.
- H.264, H.265, H.264+, H.265+, MJPEG, HIK264 video compression decoding.
- PS, RTP, TS, ES encapsulation formats.
- G.722, G.711A, G.726, G.711U, MPEG2-L2, AAC, MP3 audio compression decoding.
- Support front-end corridor mode decoding and up to 2560 × 1440 decoding output.
- Two decoding modes: active decoding and passive decoding.
- Support encryption stream, multi-track stream, and intelligent stream decoding; support stream modification and switching; support decoding exception prompt.
- Support remote video files decoding on the wall.

### Video Wall

- Support single sided video wall splicing, window opening, window cross screen roaming, scene rotation, and window rotation functions, with single screen support for three 1080p or 1.5 4K layers.
- Support 1/2/4/6/8/9/12/16 screen splitting.
- Support scenes configuration up to 64 scenes.
- Support 256 contingency plans rotation groups, each plan can be customized with setting points, scenes, and time.
- Support split screen sub-window double click to zoom in and zoom out.

- Support display output channel number.
- Support video wall to deal with network signal sources in eight directions, including automatic scanning, aperture, adjusting, focusing, and calling preset points.
- Support video wall window start/stop preview, start/stop decoding, start/stop polling, turn on/off sound, set top/bottom, and other operations.
- Support video playback function, and can start/stop playback and time selection for video recording.
- Support the use of smart wall clients to cast the desktop screen on the wall.
- Support RTP/RTSP protocol for network source preview.

#### Device Access

- Support docking with 3200 W Eagle Eye, fish eye, and conventional front-end IP cameras, DVR, NVR, and XVR devices, compatible with mainstream third-party manufacturer security system devices.
- Support the platform to integrate the decoding devices by SDK.
- Support ONVIF and GB28181 protocol to access the decoder.
- Support LCD information interactive, including display information acquirement, image configuration, series ports control, time synchronization, backlight parameters configuration and acquirement, output port disconnected automatically, error code uploaded.

#### Maintenance

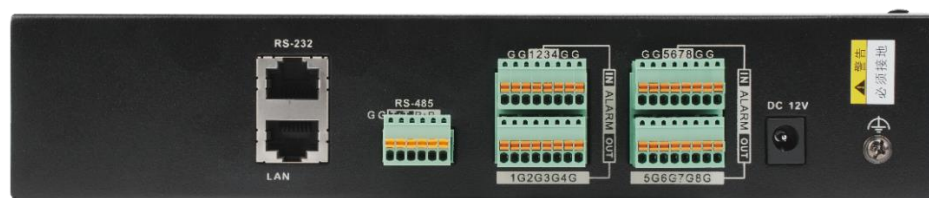
- Support network keyboard/serial port keyboard access for device control, and perform video screen switching, group operation and rotation, field switching, PTZ control, video wall playback, etc. through keyboard operation.
- Support PC client, login and operation through web browser.
- Chrome 45+ support.
- Built-in gigabit switching network that supports optoelectronic adaptation, link aggregation, and NAT function.
- Support remote acquisition, and configuration of parameters, as well as remote export and import of parameters.
- Support remote system working status and system logs acquirement.
- Support daily maintenance such as remote reboot, restore default setting and upgrading.
- Support auto-check and alarm, including network disconnect, IP conflict, illegal access, temperature exceeding limits, abnormal fan status, abnormal decoding signal source and device.
- Support user permission management, allowing users with different permissions to use designated resources and operate designated video wall modules.
- Support visual maintenance, display the main control and subsystem network topology structure and keynote network status on the maintenance interface.
- Support NTP time synchronization and manual time synchronization.

## ▪ Specification

|                       | Model                              | DS-6901UDI   |
|-----------------------|------------------------------------|--|
| Interface             | Network Interface                  | RJ45 × 1, 10 M/100 M/1000 Mbps self-adaptive Ethernet interface  |
|                       | Alarm In                           | 8-ch alarm in  |
|                       | Alarm Out                          | 8-ch alarm out   |
|                       | Serial Interface                   | RS-232 (RJ45) × 1, RS-485 × 1  |
| Video Wall Parameters | Video Wall No.                     | 1  |
|                       | Video Wall Size                    | ≤ 1  |
|                       | Split Window                       | Yes  |
|                       | Split Screen                       | 1, 2, 4, 6, 8, 9, 12, 16   |
|                       | Screen Layer                       | 1080p × 3 or 4K × 1.5  |
|                       | Window Layer                       | Screen Layer No. × Interface No.   |
|                       | Scene No.                          | 64   |
|                       | Scene Auto-Switch Delay            | 3 s  |
|                       | Contingency Plans NO.              | Support 256 platform contingency plans   |
|                       | Base Image No.                     | Background color Only  |
|                       | Subtitle No.                       | N/A (optional to support)  |
|                       | Local Signal Source Decoding Delay | 120 ms   |
|                       | Decoding Signal Source Delay       | 120 ms   |
|                       | General                            | Net Weight   |
| Dimensions(W × D × H) |                                    | 220 mm × 148 mm × 45 mm (8.66 inch × 5.83 inch × 1.77 inch)  |
| Dimensions(W × D × H) |                                    | Decoder × 1<br>Certificate of Conformity/Warranty Card/Element Table × 1<br>Power Cord × 1<br>Grounding Wire × 1   |
| Gross Weight          |                                    | ≤ 1.663 Kg (3.67 lb)   |
| Power Consumption     |                                    | ≤ 15 W   |
| Power Supply          |                                    | External 12 VDC  |
| Working Temperature   |                                    | -10 °C to 55 °C (14 °F to 131 °F)  |
| Working Humidity      |                                    | 10% to 90%   |
| Audio Encoding        | Audio Encoding Format              | G711A/G711U/G722.1/ G726-16/U/A /MPEG/AAC-LC   |
| Video Output          | Output Interface Type              | HDMI 1.4   |
|                       | Output Interface No.               | 1  |
|                       | Max. Output Resolution             | 4K   |
|                       | Output Resolution                  | HDMI:<br>4K: 3840 × 2160@30 Hz, 2560 × 1440@30 Hz, 1920 × 1200@60 Hz, 1920 × 1080@50 Hz/60 Hz, 1680 × 1050@60 Hz, 1600 × 1200@60 Hz, 1280 × 1024@60 Hz, 1280 × 720@50 Hz/60 Hz, 1024 × 768@60 Hz |
|                       | Video Output Interface (BNC)       | 1-ch BNC   |
| Video Decoding        | Video Output Resolution (BNC)      | BNC:<br>PAL: 704 × 576, NTSC: 704 × 480  |
|                       | Video Decoding Channel             | 16   |
|                       | Video Decoding Format              | H.264, H.265, H.264+, H.265+, MJPEG  |
|                       | Decoding Resolution                | Up to 3200 W   |
| Audio Output          | Video Decoding Performance         | Support 1-ch 3200 W/2400 W/2-ch 1200 W/4-ch 800 W/5-ch 600 W/ 9-ch 400 W/16-ch 1080p and below real-time decoding  |
|                       | Audio Output Interface No.         | 1  |
| Audio Decoding        | Audio Output Interface Type        | HDMI embedded or BNC   |
|                       | Audio Decoding Format              | G711A, G711U, G722.1, G726-16/U/A, MPEG, AAC-LC  |

▪ **Physical Interface**

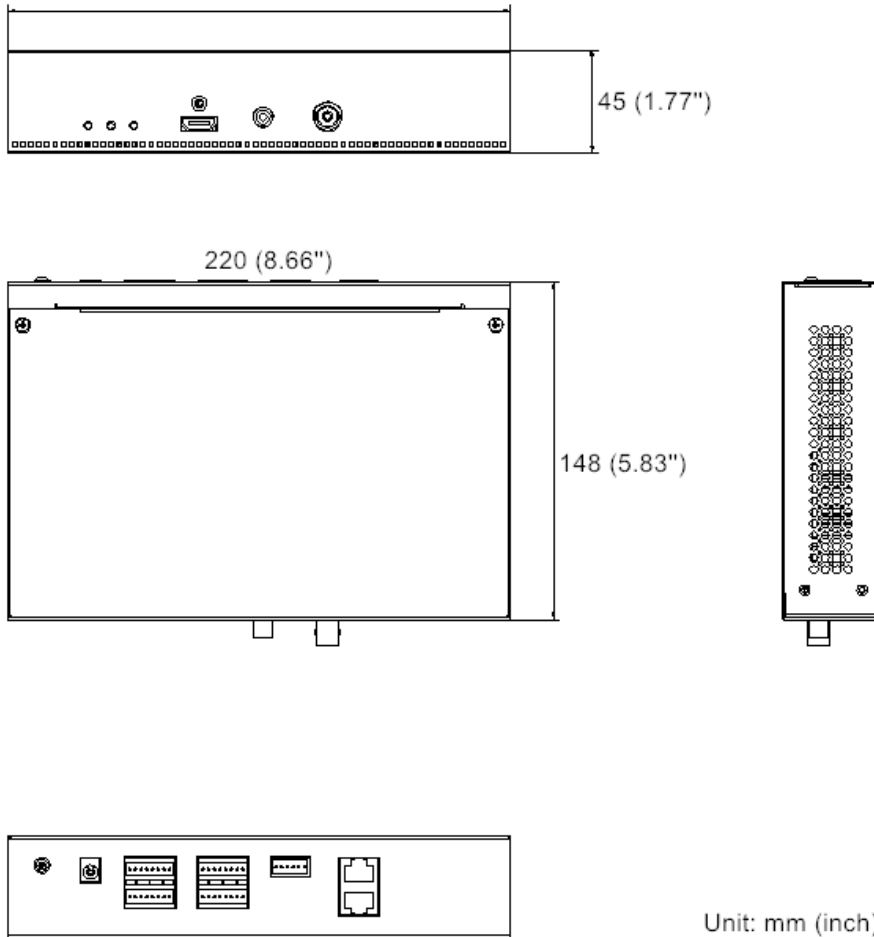
| Front Panel | Description  | Rear Panel | Description  |
|-------------|--|------------|--|
| PWR         | Power supply indicator, red for normal working status                          | RS-232     | RS-232 Serial Port   |
| LINK        | Network connection indicator, yellow and green for normal working status.      | LAN        | LAN 10/100/1000 Mbps self-adaptive 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)

▪ Dimension



Headquarters

No.555 Qianmo Road, Binjiang District,  
Hangzhou 310051, China  
T +86-571-8807-5998  
www.hikvision.com

Follow us on social media to get the latest product and solution information.

