

## DC01

### Ultra High Definition Decoder



DC00 Series decoders are developed on the basis of embedded hardware platform. DC01 is capable of outputting decoded video via HDMI 1.4, BNC interfaces, and also supports multiple video decoding formats, like H.265, H.264, MJPEG, Smart264 and Smart265, which has good decoding performance. It supports H.265/H.264 decoding no more than 32 MP and 4K ultra-high-definition (UHD) video output, which is a new generation of decoder launched by our company for HD network cameras and can be widely used in various video security system projects.

- Support network camera, NVR, and other devices to serve as network signal source.
- 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.
- 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.
- 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.
- 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.
- 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 NAT.
- 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.

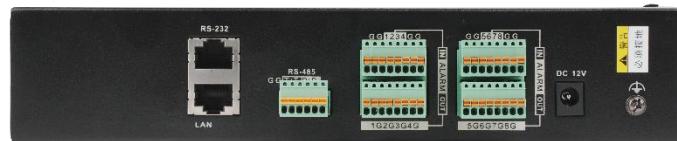
## ▪ Specification

Product Model	
Product Model	DC01
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
Scene Auto-Switch Delay	3 s
Split Screen	1, 2, 4, 6, 8, 9, 12, 16
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
Gross Weight	1.44 kg (3.17 lb)
Power Consumption	< 15 W
Packing List	Decoder × 1 Quick Start Guide × 1 Regulatory Compliance and Safety Information × 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
Video Input	
Video Input Interfaces	0
Audio Encoding	
Audio Encoding Format	G722.1, G711U, G711A, AAC-LC
Video Output	
Max. Video Output Resolution	4K
Video Output Interface Type	HDMI 1.4

Video Output Interfaces	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, 1600 × 1200@60 Hz, 1280 × 1024@60 Hz, 1280 × 720@60 Hz, 1280 × 720@50 Hz, 1024 × 768@60 Hz
Video Output Resolution (BNC)	PAL: 704 × 576@25 Hz, NTSC: 704 × 480@30 Hz
Video Output Interface (BNC)	1-ch BNC
<b>Video Decoding</b>	
Video Decoding Format	H.264, H.265, SmartH.264, SmartH.265, MJPEG
Video Decoding Resolution	Up to 32 MP
Video Decoding Channels	16
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
<b>Audio Output</b>	
Audio Output Interface Type	embedded HDMI audio output or BNC
Audio Output Interfaces	1
<b>Audio Decoding</b>	
Audio Decoding Format	G711A, G711U, G722.1, G726-16/U/A, MPEG, AAC-LC
<b>Encoding and Decoding</b>	
Audio Decoding Format	G711A, G711U, G722.1, G726-16/U/A, MPEG, AAC-LC, PCM
<b>Decoding</b>	
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

DC01