

DVDO

DVDO-C4-1-NDI-B (Black)

DVDO-C4-1-NDI-W (White)

HD PTZ AI NDI Camera
with HDMI/IP/3G-SDI/USB3.0

DVDO-C4-1-NDI is a high quality PTZ camera with AI auto-tracking that features advanced ISP processing algorithms, offering vivid and high resolution video with a strong sense of depth and fantastic color rendition.

It supports H.264/H.265 encoding which makes motion video more fluent and clear under low bandwidth conditions.

Applications:

- Education
- Lecture Capture
- Houses of Worship
- Healthcare
- Tele-medicine
- Courtrooms
- Broadcasting
- Webcasting
- Live events
- Video Conferencing
- Command & Control Centers



Features

- **Full HD Resolution:** 1/2.8 inch high quality CMOS sensor. Resolution up to 1920x1080 with frame rate up to 60 fps
- **Lens:** 20x optical zoom lens; 3.2° (N) / 56° (W) FOV; Auto Focus
- **Low Noise:** Advanced 2D/3D noise reduction technology reduces the noise while ensuring high image clarity
- **Video output interfaces:** HDMI, SDI, USB3.0, LAN
- **Simultaneously output:** audio and video signal via HDMI, SDI and LAN
- **Audio/Video Compression Standards:** H.264/H.265 video compression, up to 1920x1080 resolution 60 fps
- **USB3.0 Support Dual Coding Stream:** main, sub & simultaneous output; YUY2, MJPEG, H.264, NV12 & H.265 video coding format
- **Built-in Gravity Sensor:** PTZ auto-flip function and easy installation
- **LAN Features:** the camera can be powered by POE, stream the video and be controlled over LAN with a webGUI. Supported protocols: ONVIF, GB/T28181, RTSP, RTMP, VISCA OVER IP, RTMPS, SRT & NDI® | HX. RTMP push mode allows connection to streaming server (Wowza, FMS); RTP multicast
- **Serial Control Interface:** RS422 is compatible with RS485, RS232-IN, RS232-OUT, and the RS232 interface supports cascading. Control protocols: VISCA, PELCO-D & PELCO-P
- **Quiet Pan / Tilt Movement:** using high accuracy step driving motor
- **AI Human Detection:** high-speed processor and advanced image processing and analysis algorithms, real-time or regional tracking options

Technical Specifications

Camera Parameters	
Optical Zoom	20x
Focus	5.2 -- 98mm
FOV	3.2° (N) / 56° (W)
Aperture Value	F1.5 -- F3.0
Digital Zoom	15x
Effective Pixels	2.07, 1/2.8-inch high-quality CMOS sensor
Video Format	<p>HDMI/SDI: 1080p60, 1080p50, 1080p30, 1080p25, 720p60, 720p50, 1080p59.94, 1080p29.97, 720p59.94</p> <p>USB3.0 (Main stream):</p> <p>- YUY2/NV12: 1920x1080 / 1280x720 / 1024x576 / 800x600 / 800x448 / 640x360 / 640x480 / 480x270 / 320x180 @30/25/20/15/10/5fps</p> <p>- MJPG/H264: 1920x1080 / 600x896 / 1280x720 / 1024x576 / 960x540 / 800x600 / 800x448 / 720x576 / 720x480 / 640x360 / 640x480 / 480x270 / 352x288 / 320x240 @30/25/20/15/10/5fps0</p> <p>USB3.0 (Sub stream):</p> <p>- YUY2/NV12: 1920x1080 / 1280x720 / 1024x576 / 800x600 / 800x448 / 640x360 / 640x480 / 480x270 / 320x180 @30/25/20/15/10/5fps</p> <p>- MJPG/H264: 1920x1080 / 1600x896 / 1280x720 / 1024x576 / 960x540 / 800x600 / 800x448 / 720x576 / 720x480 / 640x360 / 640x480 / 480x270 / 352x288 / 320x240 @30/25/20/15/10/5fps</p>
Minimum Illumination	0.5Lux (F1.8, AGC ON)
DNR	2D & 3D
AWB	Automatic, manual, one-key white balance, specified color temperature
Focus Mode	Automatic, manual, one-key focus
Exposure Mode	Auto, manual, shutter priority, aperture priority, brightness priority
Iris Value	F1.8 -- F11, CLOSE
Shutter Speed	1/25 -- 1/10000
BLC	On/Off
Dynamic Range	Off, 1 -- 8
Image Adjustments	Brightness, chroma, saturation, contrast, sharpness, black and white mode, gamma curve
SNR	≥50dB

AI Function	
Real-Time Tracking	Maximum Tracking Range: 6-7 meters. Support speakers to walk at a speed of 3-4 meters
Regional Tracking	Maximum Tracking Region: 4. Can set region within horizontal -170° ~ +170° and vertical -30° ~ +90°
Interface	
Product Interface	HDMI, LAN (POE), USB3.0 (B-Type, compatible with USB2.0), SDI, A-IN, RS232-IN, RS232-OUT, RS422 (compatible with RS485), Rotary Switch, DC12V Power
Video Encoding Format	LAN Interface: support main stream and sub-stream H.265, H.264 USB3.0 Interface: main stream support YUY2, MJPG, H264, NV12
Audio input interface	Dual channel 3.5mm linear input
Audio output interface	HDMI, SDI, LAN, USB3.0
Audio compression	AAC, MP3, G.711A
LAN interface	10M/100M/1000M adaptive Ethernet port, support POE power supply, support audio and video output
Network protocol	RTSP, RTMP, ONVIF, GB/T28181, VISCA over IP, IP VISCA, RTMPS, SRT & NDI® HX. Support remote upgrade, remote restart, remote reset
Control Interface	RS232-IN,RS232-OUT,RS422 compatible with RS485
Serial communication protocol	VISCA/Pelco-D/Pelco-P; support baud rate 115200/38400/9600/4800/2400
USB communication protocol	UVC (video communication protocol) UAC (audio communication protocol)
Power interface	HEC3800 Power socket (DC12V)
Power adapter	Input AC110V - AC220V Output DC12V / 2.5A
Input voltage	DC 12V ±10%
Input currency	<1A
Consumption	<12W

Technical Specifications

PTZ	
Pan rotation	-170° -- +170°
Tilt rotation	-30° -- +90°
Pan speed	0.1°/s -- 100°/s
Tilt speed	0.1°/s -- 45°/s
Preset speed	Pan: 100°/s, Tilt: 45°/s
Preset quantity	Maximum 255 preset positions can be set (10 via remote controls)
Other Parameters	
Storage temperature	-10°C -- +70°C
Storage humidity	20% -- 95%
Working temperature	-10°C -- +50°C
Working humidity	20% -- 80%
Dimension	181mm x 115mm x 149mm
Weight	1.15kg
Environment	Indoor
Accessories	
Standard accessories	Power adapter, RS232 control line, USB3.0 connection line, remote control, manual, warranty card & certificate
Optional accessories	Ceiling mounting bracket, wall mounting bracket

Mounting Accessories



Wall Bracket – Black
MPN # DVDO-CB-2-B



Wall Bracket – White
MPN # DVDO-CB-2-W



Ceiling Bracket - Black
MPN # DVDO-CB-3-B