

# DVDO

DVDO-C5-1-NDI-B (Black)

DVDO-C5-1-NDI-W (White)

4K PTZ NDI AI Camera  
with HDMI/IP/3G-SDI/USB

DVDO-C5-1-NDI is a high quality 4K 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 includes a 25x optical zoom 59.2° wide-angle lens with HDMI, SDI, USB 2.0 and IP outputs. In addition to 255 presets, it also has AI Human Detection for real time tracking and zone tracking modes are available.

## Applications:

- Education
- Lecture Capture
- Houses of Worship
- Healthcare
- Tele-medicine
- Courtrooms
- Broadcasting
- Webcasting
- Live events



## Features

- **4K UHD Resolution:** high quality Sony CMOS sensor. Resolution up to 4K with frame rate up to 60 fps
- **Lens:** 25x optical zoom, 59.2° wide-angle lens; Auto Focus
- **Low Noise:** Advanced 2D/3D noise reduction technology reduces the noise while ensuring high SNR image clarity
- **Video output interfaces:** HDMI, SDI, USB2.0, LAN. Simultaneous output via HDMI, USB and LAN.
- **Audio/Video Compression Standards:** LAN port: H.264/H.265; USB port: MJPG/H.264/H.265/YUY2/NV12
- **USB Dual Stream Output:** main, sub & simultaneous output for optimal near-end & far-end viewing
- **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 & NDI® | HX. RTMP push mode allows connection to streaming server (Wowza, FMS); RTP multicast
- **Serial Control Interface:** RS422-IN is compatible with RS485, RS232-IN/OUT, and the RS232 interface supports cascading. Control protocols: VISCA, PELCO-D & PELCO-P. Automatic protocol identification.
- **Multiple Presets:** up to 255 presets (10 presets via remote control)
- **AI Human Detection:** high-speed processor and advanced image processing and analysis algorithms, real-time or zone tracking options

## Technical Specifications

Camera Parameters	
Optical Zoom	25x
Focus	7.1 – 171.95 mm +/- 5%
Viewing Angle	Horizontal: 2.5° (N) / 59.2° (W) Vertical: 1.4° (N) / 34.6° (W)
Iris Value	F1.61 – F5.19 +/- 5%
Image Sensor	1/1.8 inch Sony CMOS sensor
Effective Pixels	8.51M megapixel 16:9
Video Format	<b>HDMI:</b> 3840x2160p60/50/25/59.94/29.97, 1080p60/50/30/25/59.94/29.97, 1080i60/50/59.94, 720p60/50/59.94 <b>SDI:</b> 1080p60/50/30/25/59.94/29.97, 1080i60/50/59.94, 720p60/50/59.94 <b>USB2.0:</b> - MJPG/H.264: 3840x2160 / 1920x1080 / 1280x720 / 1024x768 / 1024x576 / 800x600 / 720x576 / 720x480 / 704x576 / 640x480 / 640x360 / 352x288 / 320x240p30 - H.265: 1920x1080 / 1280x720 / 1024x768 / 1024x576 / 800 x 600 / 720x576 / 720x480 / 704x576 / 640x480 / 640x360 / 352x288 / 320x240p30 - YUY2: 800x448 / 720x480p25 / 640x360 / 432x240p30 - NV12: 800x448p25 / 640x480 / 640x360 / 432x240p30
Minimum Illumination	0.05Lux (F1.8, AGC ON)
DNR	3D DNR
White Balance	Auto/Manual/One Push/Specified Temperature
Focus	Auto/Manual/One Push 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
WDR	Off/Dynamic level adjustment
Dynamic Range	Off, 1 -- 8
Image Adjustments	Brightness, Color, Saturation, Contrast, Sharpness, Black & 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 5-6 mph
Regional Tracking	4 tracking zones available, can be set within -110 ~ +110° horizontal and -30 ~ +30° vertical
Interface	
Product Interface	HDMI, SDI, LAN (POE), USB2.0, A-IN, RS232-IN, RS232-OUT, RS422 (compatible with RS485), Rotary DIP Switch, DC12V Power Supply, Power Switch
Video Encoding Format	LAN: H.265, H.264 USB2.0: MJPG, H.264, H.265, YUV2, NV12
Audio input interface	Double track 3.5mm linear input
Audio output interface	HDMI, LAN, USB2.0
Audio compression	AAC, 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 & 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 Outlet (DC12V)
Power adapter	Input AC110V - AC220V Output DC12V / 2.5A
Input voltage	DC 12V ±10%
Input currency	<1A
Consumption	<12W

## Technical Specifications

<b>PTZ</b>	
Pan rotation	-110° -- +110°
Tilt rotation	-30° -- +30°
Pan speed	0.1°/s -- 100°/s
Tilt speed	0.1°/s -- 70°/s
Preset speed	Pan: 78.8°/s, Tilt: 31.5°/s
Preset quantity	Maximum 255 presets (10 via remote control)
<b>Other Parameters</b>	
Storage temperature	-10°C -- +60°C
Storage humidity	20% -- 95%
Working temperature	-10°C -- +50°C
Working humidity	20% -- 80%
Dimensions	220mm (L) x 144mm (W) x 159mm (H)
Weight	1.7kg
Environment	Indoor
<b>Accessories</b>	
Standard accessories	Power supply, RS232 control cable, USB2.0 cable (U3 model), IR remote control, user manual, warranty card
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