

# DVDO

## DVDO-C7-1-S

4K/30 PTZ Camera  
with HDMI/IP/USB3.0  
& AI Voice Tracking



DVDO-C7-1-S is a high quality 4K UHD PTZ camera with AI voice 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

- **4K UHD Resolution:** high quality 8.5 million resolution Sony CMOS sensor. Resolution up to 4K with frame rate up to 30 fps
- **Lens:** 12x optical zoom 80.5° 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, USB3.0 (supports dual stream), LAN.
- **Audio/Video Compression Standards:** MJPEG, H.264, H.265 (up to 3840x2160 resolution 30 fps video compression), YUV2, NV12
- **Audio Input Interface:** AAC, MP3 (16000, 32000, 44100, 48000 sampling frequency), G.711A audio encoding
- **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. RTMP push mode allows connection to streaming server (Wowza, FMS); RTP multicast
- **Serial Control Interface:** RS232-IN. Control protocols: VISCA, PELCO-D & PELCO-P
- **Low Power Sleep Mode:** low-power sleep/wake-up, power consumption during sleep is less than 400mW
- **Auto Framing:** automatic detection of participants with high speed processor and face detection algorithm provides optimal framing
- **Intelligent Voice Tracking:** intelligent voice localization algorithm using 6 built-in omnidirectional mic arrays tracks the speaker in real time

## Technical Specifications

<b>Close-up Lens</b>	
Optical Zoom	12x
Image Sensor	1/2.8-inch high-quality CMOS sensor
Effective Pixel	8.5M, 16:9
Video Format	<p><b>HDMI:</b> 4K30, 4K25, 1080p30, 1080p25, 1080p29.97</p> <p><b>USB3.0 (Main stream):</b></p> <p>- YUY2/NV12: 1920x1080 / 1280x720 / 1024x576 / 800x600 / 800x448 / 640x360 / 480x270 / 320x180 @30/25fps</p> <p>- MJPG/H.264: 3840x2160 / 1920x1080 / 1600x896 / 1280x720 / 1024x576 / 960x540 / 800x600 / 800x448 / 720x576 / 720x480 / 640x360 / 640x480 / 480x270 / 352x288 / 320x240 @30/25/20/15/10/5fps</p> <p><b>USB3.0 (Sub stream):</b></p> <p>- YUY2/NV12: 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>
Viewing Angle	7.6° (N) / 80.5° (W)
Iris Value	F1.8 -- F3.6, Close
Digital Zoom	15x
Minimum Illumination	0.5Lux (F1.8, AGC ON)
DNR	2D & 3D
White Balance	Auto/Manual/One-Button White Balance/Specified Color Temperature
Focus Mode	Auto/Manual/One Button focus
Exposure Mode	Auto, Manual, Shutter Priority, Aperture Priority, Brightness Priority
Shutter Speed	1/25 -- 1/20000
BLC	On/Off
Dynamic Range	Off, 1 -- 8
Image Adjustments	Brightness, hue, saturation, contrast, sharpness, B & W mode, gamma curve
SNR	≥50dB
<b>Panoramic Lens</b>	Fixed Focus Lens
Viewing angle	110.2°/101.8°/69.5° (D/H/V)
Iris	F2.0 +/- 5%
Focus	F=1.89mm

<b>Interface</b>	
Back Panel	HDMI, LAN (POE), USB3.0, LINE-IN, RS232-IN, DC12V power supply, power switch
Video Output	HDMI, LAN, USB3.0
Video Compression Format	LAN: H.265, H.264 USB3.0: MJPG, H.264, YUY2, NV12
Audio Input	Dual channel 3.5mm line input
Audio Output	HDMI, LAN, USB3.0
Audio Compression	AAC, MP3, G.711A
LAN Port	10M/100M/1000M adaptive Ethernet port, support POE power supply, support audio and video output
Network Protocols	RTSP, RTMP, ONVIF, GB/T28181, VISCA over IP, IP VISCA, RTMPS, SRT, support remote upgrade, remote restart, remote reset
Control Interface	RS232-IN
Serial Communication Protocols	VISCA/Pelco-D/Pelco-P; 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 Current	<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: 31.7°/s
Preset quantity	Maximum 255 (10 via remote controls)
<b>Other Parameters</b>	
Storage temperature	-10°C -- +60°C
Storage humidity	20% -- 95%
Working temperature	-10°C -- +50°C
Working humidity	20% -- 80%
Dimension	220mm x 136mm x 159mm
Weight	1.7kg
Environment	Indoor
<b>Accessories</b>	
Standard accessories	Power adapter, RS232 control cable, USB3.0 cable, remote control, user manual
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