

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

Close-up Lens	
Optical Zoom	12x
Image Sensor	1/2.8-inch high-quality CMOS sensor
Effective Pixel	8.5M, 16:9
Video Format	<p>HDMI: 4K30, 4K25, 1080p30, 1080p25, 1080p29.97</p> <p>USB3.0 (Main stream):</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>USB3.0 (Sub stream):</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
Panoramic Lens	Fixed Focus Lens
Viewing angle	110.2°/101.8°/69.5° (D/H/V)
Iris	F2.0 +/- 5%
Focus	F=1.89mm

Interface	
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

PTZ	
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)
Other Parameters	
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
Accessories	
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