DVDO

DVDO-C7WIFI-1-G

4K Wireless PTZ Camera with AI Auto-Tracking

DVDO-C7WIFI-1-G is a wireless 4K PTZ camera with advanced AI human auto-tracking.

It uses a low noise 1/1.8" CMOS sensor, offering vivid and clear video with a strong sense of depth and fantastic color rendition.

It features a 20X optical zoom, a 16X digital zoom and a 60° horizontal field of view.

It can transmit video signals wirelessly up to 200m and comes with a built-in battery with 6 hours of autonomy, making it completely wireless.

It offers advanced connectivity with HDMI, USB-C & LAN ports with PoE support as well as a line-in audio input.

It can be controlled with its remote control, via RS485, IP or wirelessly.

Features

- High quality 4K UHD 1/1.8-inch CMOS sensor

- 20X optical zoom, 16X digital zoom

- 60° horizontal Field of View (FOV)

- AI human auto-tracking

- 300Mbps wireless transmission up to 200m/650ft using 2x2 MIMO and beamforming technology

- Advanced connectivity including USB 3.0 (Type-C), HDMI, LAN and audio line-in ports

- Two built-in microphones

- Built-in OLED display showing output resolution, battery level, wireless signal strength, camera status, IP address,…

- Large capacity 9450mAh lithium battery with up to 6 hours of autonomy

- IP video compression: H.265 / H.264 / MJEPG with first (3840×2160) and second (1920×1080) streams

- IP control protocols: TCP/IP, HTTP, RTSP, RTMP, ONVIF, DHCP, Multicast

Applications

- Live Events
- Sporting Events
- Distance Learning
- Conferences
- House of Worship
- Hospitality

Technical Specifications

Camera	
Video Resolutions	4K30/25, 1080p30/25
Image Sensor	1/1.8-inch CMOS sensor
Effective Pixels	8.42M
Zoom	20X Optical / 16X Digital
Iris Value	F1.58~3.95
Minimum Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s~1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Field of View (FOV)	60°~3.5° (H) / 35.7°~2.0° (V)
Pan rotation	±170°
Tilt rotation	-30° ~ +90°
Pan speed	2.7°/s ~ 35.7°/s
Tilt speed	2.7°/s ~ 31.5°/s
Preset quantity	255
Digital Noise Reduction	2D & 3D
Other Features	Backlight Compensation, Image Flip, Day/Night Mode, Image Freeze, Auto ICR
Signal-to-Noise Ratio	≥55dB
USB Features	
System Compatibility	Windows 7/8/10/11, Mac OS X, Linux, Android
Color Space Compression	MJPEG/YUY2/H.264
Video Formats	YUY2 (ISOC): 1440P30 (max.) MJPEG: 2160P30 (max.) H.264 AVC: 2160P30 (max.)
Communication Protocol	UAC 1.0 / UVC 1.1
Network Features	
Video Compression	H.264/H.265/MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolutions	3840x2160, 1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Second Stream Resolutions	640x360, 480x272, 320x240, 320x180
Video Bit Rate	32Kbps~20480Kbps
Bit Rate Control	CBR, VBR
Frame Rate	50Hz: 1fps~25fps, 60Hz: 1fps~30fps
Audio Type / Bit Rate	AAC / 96K, 128K, 256K
Network Protocol	TCP/IP, HTTP, RTSP, RTMP(S), ONVIF, DHCP, Multicast, etc.

Wireless Features	
Work Frequency	5.15GHz~5.35GHz, 5.425GHz~5.725GHz, 5.745GHz~5.850GHz
Transmission Power	27dBm
Antenna Mode	2x2 MIMO, Beamforming
Channel Bandwidth	20/40MHz
Modulation Mode	OFDM
Data Rate	300Mbps (max.)
Network Mode	Point to Point, Point to Multipoint
Penetration	1~2 walls
Transmission Distance	200M
Protocol	802.11a/n
Interfaces	
USB Interface	1 x USB: Type-C
Video Interface	1 x HDMI: 1.4b
Network Interface	1 x LAN: 10M/100M Adaptive Ethernet Port
Audio Interface	1 x LINE IN: 3.5mm audio 2 x Built-in microphones
Communication Interface	1 x RS485: 3pin phoenix port; Max Distance: 1200m; Protocol: VISCA/Pelco-D
Power Interface	JEITA type (DC IN 12V)
RESET Key	Pinhole RESET
General Specifications	
Storage temperature	-40℃ -- +60℃
Operating temperature	0℃ -- +40℃
Dimensions	143 x 189 x 201 mm
Net Weight	1.9kg
Power	DC 12V / 3A
Battery	9450mAh
Power Consumption	36W (max)

Mounting Accessories

Wall Bracket
MPN # DVDO-CB-1

Ceiling Bracket
MPN # DVDO-CB-5-B