

# DVDO

## DVDO-C7WIFI-1-NDI-G

### 4K NDI Wireless PTZ Camera with AI Auto-Tracking

DVDO-C7WIFI-1-NDI-G is a wireless 4K NDI 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 / MJPEG with first (3840×2160) and second (1920×1080) streams
- IP control protocols: TCP/IP, HTTP, RTSP, RTMP, ONVIF, DHCP, Multicast, NDI-HX

## Applications

- Live Events
- Distance Learning
- House of Worship
- Sporting Events
- Conferences
- 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.)<br>MJPEG: 2160P30 (max.)<br>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,<br>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,<br>5.425GHz~5.725GHz,<br>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<br>2 x Built-in microphones                          |
| Communication Interface | 1 x RS485: 3pin phoenix port;<br>Max Distance: 1200m; Protocol: VISCA/Pelco-D |
| Power Interface         | JEITA type (DC IN 12V)                                                        |
| RESET Key               | Pinhole RESET                                                                 |
| General Specifications  |                                                                               |
| Storage temperature     | -40°C -- +60°C                                                                |
| Operating temperature   | 0°C -- +40°C                                                                  |
| 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