

## iDS-2CD7146G0-IZS x-xx mm 4 MP IR Varifocal Dome Network Camera

## DarkFighter™



### DeepinView<sup>series</sup>

- 4 MP Resolution
- DarkFighter Low-Light Performance
- 140 dB WDR for Clear Backlit Images
- H.265+ Compression
- Smooth Live View and Data Self-Correcting
- 5 Streams + Up to 5 Custom Streams
- Vandal-Proof (IK10)

#### Attribute-Based People Counting

Embedded deep learning algorithms integrate multiple intelligences. They count people, sample face features, and identify people who pass repeatedly over a period of time. They count persons and send a face alarm for entrance control and people counting.

#### Hard Hat Detection

Embedded deep learning algorithms detect persons in a specified region. They detect if the person is wearing a hard hat and captures the person's head and sends an alarm if not.

#### Perimeter Protection

The camera performs perimeter protection, monitoring line crossing, intrusion, region entrance, and region exiting. Algorithms filter out

mistaken alarms caused by leaves, lights, animals, flags, etc.

#### Multi-Target-Type Detection

Deep learning algorithms detect and capture faces, human bodies, and vehicles in specified regions and outputs features such as gender, age, top color, and vehicle type. It supports a structured modeling of the face and human body to achieve structured data collection.

#### Queue Management

Embedded deep learning based algorithms detect queued people number and waiting times. The body feature detection algorithm filters out wrong targets and increases detection accuracy.

#### Metadata

Metadata uses individual application data instances or the data content. Metadata can be used for third-party application development.

#### Smooth Streaming

Smooth streaming video quality in different network conditions. For example, in poor network conditions, streaming bit rate and resolution are automatically adjusted to avoid mosaic and lower latency in live view; in multiplayer network conditions, the camera transmits redundant data for self-error correcting in back-end device to solve mosaic problems because of packet loss and error rate.

#### Available Models

iDS-2CD7146G0-IZS 8-32 mm: 8 to 32 mm lens

iDS-2CD7146G0-IZS 2.8-12 mm: 2.8 to 12 mm lens



# Specifications

	iDS-2CD714660-IZS 2.8-12 mm	iDS-2CD714660-IZS 8-32 mm
<b>Camera</b>		
Image Sensor	1/1.8" progressive scan CMOS	
Minimum Illumination	Color	0.001 lux @ (f/1.2, AGC on)
		0.0043 lux @ (f/2.5, AGC on)
	B/W	0.0003 lux @ (f/1.2, AGC on)
		0.0013 lux @ (f/2.5, AGC on)
Shutter Speed	1 s to 1/100,000 s	
Slow Shutter	Yes	
P/N	P/N	
Wide Dynamic Range	140 dB	
Day/Night	IR cut filter	
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°	
Power-Off Memory	Yes	
Flash Memory	8 GB	
RAM	2 GB	
<b>Lens</b>		
Focus	Auto, semi-auto, manual	
Lens Type	2.8 mm to 12 mm	8 mm to 32 mm
FOV	Horizontal FOV 114.5° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal FOV 141.1° to 48°	Horizontal FOV 42.5° to 15.1°, vertical FOV 23.3° to 8.64°, diagonal FOV 49.6° to 17.3°
Aperture	f/1.2 to f/2.5	f/1.7 to f/1.73
Lens Mount	Integrated	
Blue Glass Module	Blue glass module to reduce ghost phenomenon	
P-Iris	Yes	
<b>Illuminator</b>		
IR Range	98' (30 m)	164' (50 m)
Wavelength	850 nm	
Smart Supplement Light	Yes	
<b>Video</b>		
Maximum Resolution	2680 × 1520	
Main Stream	50 Hz: 25 fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)	
	60 Hz: 30 fps (2680 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)	
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480)	
	60 Hz: 30 fps (704 × 480, 640 × 480)	
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)	
	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)	
Fourth Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)	
	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)	
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)	
	60 Hz: 30 fps (704 × 480, 640 × 480)	
Custom Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)	
	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)	
Video Compression	Main stream: H.265+/H.265/H.264+/H.264	
	Sub-stream/third stream/fourth stream/fifth stream/custom stream: H.265/H.264/MJPEG	
Video Bit Rate	32 Kbps to 16 Mbps	
H.264 Type	Baseline Profile/Main Profile/High Profile	
H.265 Type	Main Profile	
H.264+	Main Stream supports	
H.265+	Main Stream supports	
Bit Rate Control	CBR/VBR	
Stream Type	Main stream/sub-stream/third stream/fourth stream/fifth stream/custom stream	
Scalable Video Coding (SVC)	H.265 and H.264 support	
Region of Interest (ROI)	4 fixed regions for each stream	
<b>Audio</b>		
Environment Noise Filtering	Yes	
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz	
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3	
Audio Bit Rate	64 Kbps [G.711]/16 Kbps [G.722.1]/16 Kbps [G.726]/32-192 Kbps [MP2L2]/32 Kbps [PCM]/8-320 Kbps [MP3]	
Audio Type	Mono sound	
<b>Network</b>		
Simultaneous Live View	Up to 20 channels	
API	ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1x, QoS, IPv6, UDP, Bonjour, SSL/TLS	
Smooth Streaming	Yes	
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user	
Security	Password protection, complicated password, HTTPS encryption, 802.1x authentication (EAP-TLS, EAP-LEAP EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2	

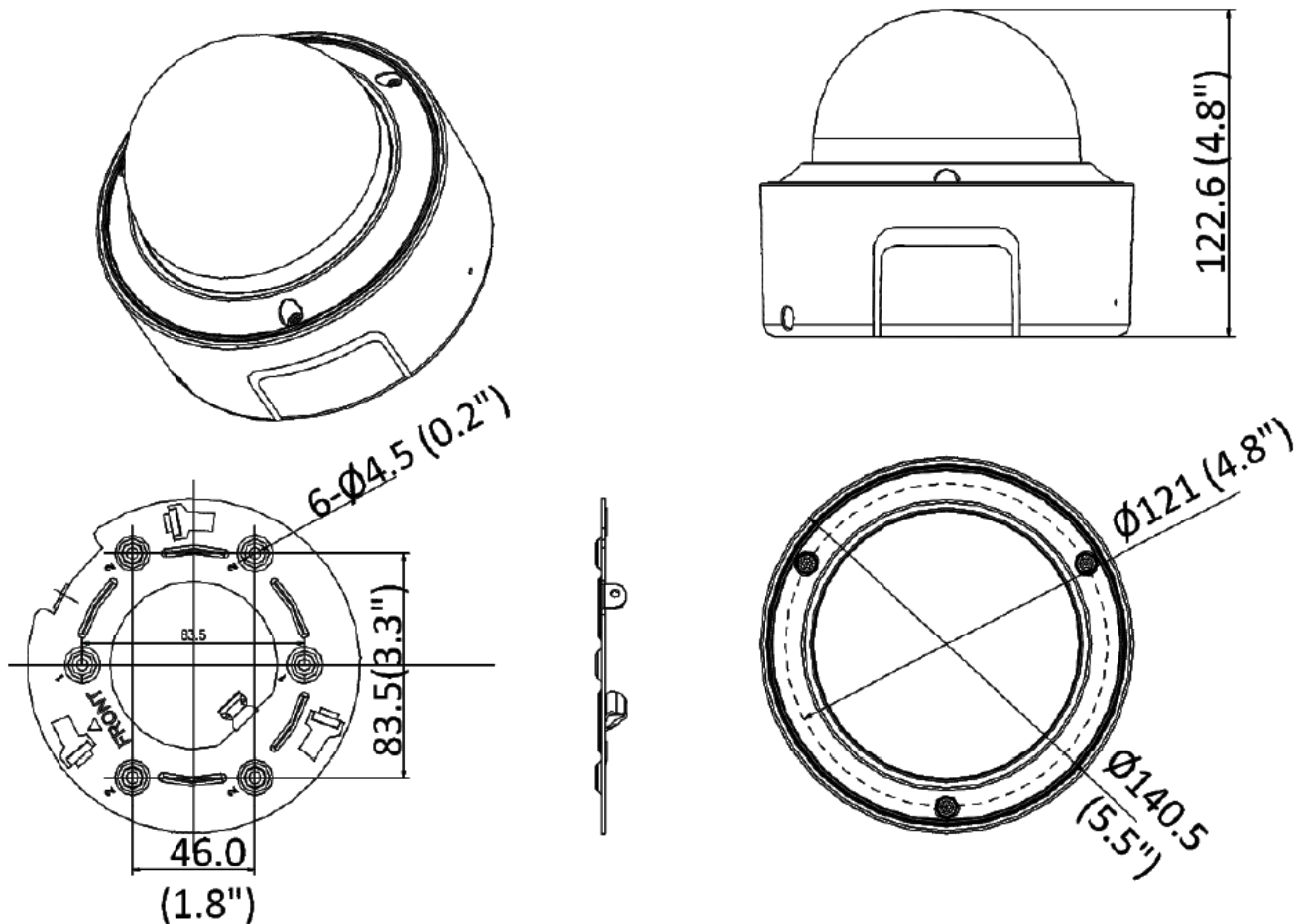
# Specifications (continued)

	iDS-2CD714660-IZS 2.8-12 mm	iDS-2CD714660-IZS 8-32 mm
<b>Network</b> (continued)		
Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, NAS (NFS, SMB/CIFS), auto network replenishment (ANR); together with high-end Hikvision memory card, memory card encryption and health detection support	
Client	iVMS-4200, Hik-Connect, HikCentral	
Web Browser	Plug-in required live view: IE8+; Plug-in free live view: Chrome 57.0+, Firefox 52.0+; Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+	
<b>Image</b>		
Smart IR	The IR LEDs on camera should support Smart IR function to automatically adjust power to avoid image overexposure	
Day/Night Switch	Day, Night, Auto, Schedule, Triggered by Alarm In	
Target Cropping	Yes	
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24-bit bmp format	
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, Distortion Correction	
Image Parameters Switch	Yes	
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or Web browser	
SNR	≥52 dB	
<b>Interface</b>		
Alarm	1 input, 1 output (maximum 24 VDC, 1 A)	
Audio	1 input (line in), 3.5 mm connector, maximum input amplitude: 3.3 vpp, input impedance: 4.7K Ω, interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, maximum output amplitude: 3.3 vpp, output impedance: 100 Ω, interface type: non-equilibrium, mono sound, 1 built-in microphone	
RS-485	1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)	
Video Output	1 Vp-p composite output (75 Ω/CVBS) (only for debug)	
On-Board Storage	Built-in microSD/SDHC/SDXC slot, up to 256 GB	
Hardware Reset	Yes	
Communication Interface	1 RJ-45 10M/100M/1000M self-adaptive Ethernet port	
Power Output	12 VDC, maximum 100 mA (supported by all power supply types)	
<b>Smart Features</b>		
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)	
Smart Event	Line crossing detection, up to 4 lines configurable Intrusion detection, up to 4 regions configurable Region entrance detection, up to 4 regions configurable Region exiting detection, up to 4 regions configurable unattended baggage detection, up to 4 regions configurable object removal detection, up to 4 regions configurable, scene change detection, audio exception detection, defocus detection	
Counting	Yes	
<b>Intelligent (Deep Learning Algorithm)</b>		
Face Capture	1. Detects up to 30 faces simultaneously 2. Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30° 3. Uploads face with background and closed-up face pictures	
Multi-Target-Type Detection	Supports simultaneous detection of human body and face, gets 8 face features and 14 human body features	
Attribute-Based People Counting	Supports entering/exiting counting (track 30 targets simultaneously); supports identifying people who pass repeatedly over a period of time	
Hard Hat Detection	Detects up to 30 human targets simultaneously, supports up to 4 shield regions	
Queue Management	Detects queuing-up people number, and waiting time of each person, generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue, raw data export for further analysis	
Premier Protection	Line crossing, intrusion, region entrance, region exiting, alarm trigger by specified target types (human, vehicle), filters out mistaken alarm caused by leaf, light, animal, flag, etc.	
<b>General</b>		
Linkage Method	Upload to FTP/NAS/memory card, notify surveillance center, send e-mail, trigger alarm output, trigger recording, trigger capture, trigger recording: memory card, network storage, pre-record and post-record trigger captured pictures uploading: FTP, SFTP, HTTP, NAS, e-mail, trigger notification: HTTP, ISAPI, alarm output, e-mail	
Online Upgrade	Yes	
Dual Backup	Yes	
Web Client Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian	
General Function	Anti-flicker, 5 streams and up to 5 custom streams, EPTZ, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter	
Software Reset	Yes	
Storage Conditions	-30° to 60° C (-22° to 140° F), humidity 95% or less (non-condensing)	
Startup and Operating Conditions	-30° to 60° C (-22° to 140° F)	
Power Supply	12 VDC ±20%, two-core terminal block, reverse polarity protection; 24 VAC ±20%; PoE: 802.3af, Type 1 Class 3	

## Specifications (continued)





	IDS-2CD714660-IZS 2.8-12 mm	IDS-2CD714660-IZS 8-32 mm
<b>General</b> (continued)		
Power Consumption and Current	12 VDC, 0.83 A, maximum 9.96 W 24 VAC, 0.85 A, maximum 12 W PoE (802.3af, 36 V to 57 V), 0.35 A to 0.21 A, maximum 12 W	
Power Interface	Two-core terminal block	
Camera Material	Aluminum alloy body	
Camera Dimension	Ø140.5 mm × 122.6 mm (Ø5.5" × 4.8")	
Package Dimension	244 mm × 174 mm × 173 mm (9.6" × 6.9" × 6.8")	
Camera Weight	Approximately 950 g (2.1 lb)	
With Package Weight	Approximately 1300 g (2.9 lb)	
<b>Metadata</b>		
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal, face capture and queue management supported	
<b>Approvals</b>		
Class	Class B	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)	
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015); LOA (IEC/EN 60950-1)	
Environment Protection	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006) IK10 (IEC 62262:2002)	



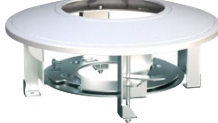
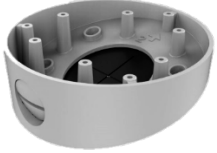
## Dimensions



Unit: mm(inch)

## Accessories (Not Included)

NOT INCLUDED			
			
<b>WML</b> Wall Mount	<b>PC130</b> Pendant Cap	<b>CPM</b> Ceiling Pendant Mount	<b>CPME</b> Ceiling Pendant Mount Extension

NOT INCLUDED			
			
<b>CM</b> Corner Mount	<b>PM</b> Pole Mount	<b>RCM-1</b> In-Ceiling Mounting Bracket	<b>AB135</b> Angled Base