

iDS-2CD7186G0-IZS 2.8–12 mm 4 MP IR Varifocal Dome Network Camera

DarkFighter™



DeepinView^{series}

- 8 MP Resolution
- DarkFighter Low-Light Performance
- 120 dB WDR for Clear Backlit Images
- H.265+ Compression
- Smooth Live View and Data Self-Correcting
- 5 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-2CD7186G0-IZS 2.8–12 mm



Specifications

iDS-2CD7186G0-IZS 2.8-12 mm	
Camera	
Image Sensor	1/1.8" progressive scan CMOS
Minimum Illumination	Color 0.002 lux @ (f/1.2, AGC on), B/W 0.0002 lux @ (f/1.2, AGC on)
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 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
Lens	
Focus	Auto, semi-auto, manual
Lens Type	2.8 mm to 12 mm
FOV	Horizontal FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal FOV: 137.3° to 47.3°
Aperture	f/1.2 to f/2.5
Lens Mount	Integrated
Blue Glass Module	Blue glass module to reduce ghost phenomenon
P-Iris	Yes
Illuminator	
IR Range	98' (30 m)
Wavelength	850 nm
Smart Supplement Light	Yes, IR
Video	
Maximum Resolution	3840 × 2160
Main Stream	50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Fifth Stream	50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Video Compression	Main stream: H.265+/H.265/H.264+/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
Scalable Video Coding (SVC)	H.265 and H.264 support
Region of Interest (ROI)	4 fixed regions for each stream
Audio	
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
Network	
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
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
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
Web Browser	Plug-in required live view: IE9+, Chrome 41.0 to 44, Firefox 30.0 to 51, Safari 8.0 to 11 Plug-in free live view: Chrome 45.0+, Firefox 52.0+ Not recommended: Safari 11+, Edge

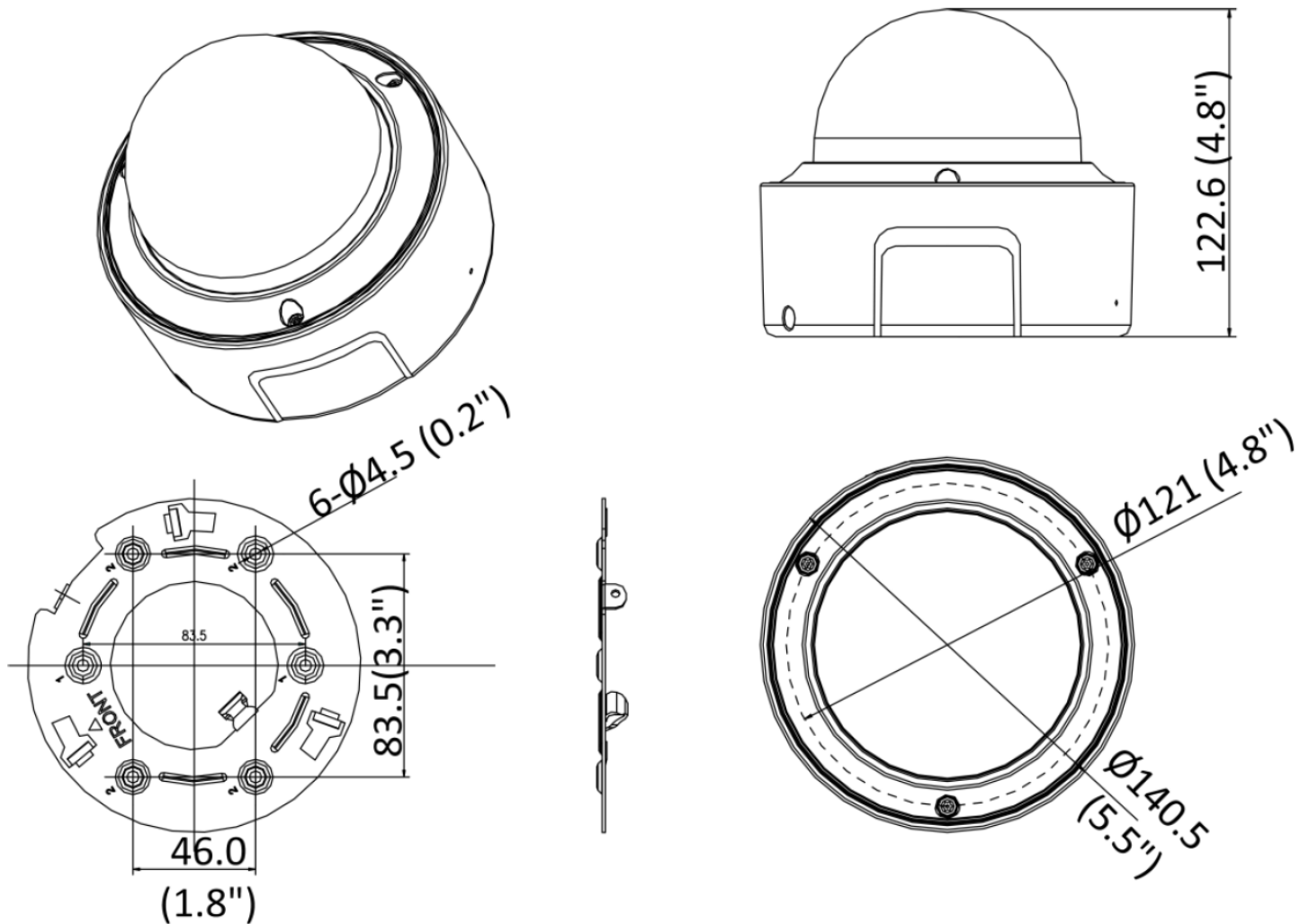
Specifications (continued)

iDS-2CD718660-IZS 2.8–12 mm	
Image	
Smart IR	Camera IR LEDs 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
Interface	
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)
Smart Features	
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
Intelligent (Deep Learning Algorithm)	
Face Capture	1. Detects up to 60 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 and capture of human body, face and vehicle Gets 7 face features, 13 human body features and 2 vehicle 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
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting; alarm triggering by specified target types (human and vehicle)
General	
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), humidity 95% or less (non-condensing)
Power Supply	12 VDC ±20%, two-core terminal block, reverse polarity protection; 24 VAC ±20%; PoE: 802.3af, Type 1 Class 3
Power Consumption and Current	12 VDC ±20%, 1.02 A, maximum 12.4 W; 24 VAC ±20%, 0.49 A, maximum 11.8 W PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.22 A to 0.29 A, maximum 12.5 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 875 g (1.93 lb)
With Package Weight	Approximately 1415 g (3.11 lb)





Specifications (continued)




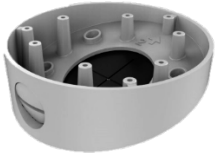
iDS-2CD7186G0-IZS 2.8-12 mm	
Metadata	
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal, face capture and queue management supported
Approvals	
Class	Class B
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (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	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IK10 (IEC 62262:2002)
Other	PVC free

Dimensions



Accessories (Not Included)

NOT INCLUDED			
			
WML Wall Mount	PC130 Pendant Cap	CPM Ceiling Pendant Mount	CPME Ceiling Pendant Mount Extension

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