HIKVISION®

iDS-2CD7146G0-IZSx

4 MP Indoor Varifocal Network Dome Camera

DarkFighter™

DeepinView series

- 1/1.8" (4 MP) Progressive Scan CMOS
- Up to 2680 x 1520 Resolution @ 30 fps
- Traditional Smart Features
- Deep-Learning Based Smart Features

  Face Recognition, Multi-Target Type Detection, Face Counting, Hard Hat Detection, Queue Management, Human and Vehicle Detection, False Alarm Filtering
- EXIR 2.0 with up to 100 ft (30 m) or 165 ft (50 m) IR Range
- 2.8 to 12 mm or 8 to 32 mm Motorized Varifocal Lens Options
- Ultra-Low Light, 0.001 Lux (with f/1.2 Lens), Darkfighter Technology
- H.265+, H.265, H.264+, H.264
- 140dB WDR, Lightfighter Technology
- Alarm/Audio Input/Output
- 12 VDC Accessory Output
- MicroSD Card Slot Supports 256 GB
- IK10 Protection
- Dome has Anti-Reflective Coating
- 12 VDC and PoE (802.3af)

The Hikvision iDS-2CD7146G0-IZSx DeepinView Indoor Varifocal Network Dome Camera supports Darkfighter technology, which allows for viewing and recording in ultra-low light conditions.

With a WDR of 140dB and Lightfighter technology, the image quality is excellent regardless of the degree of lighting.

The camera features 2.8 to 12 mm or 8 to 32 mm motorized varifocal lenses, and offers an EXIR 2.0 IR range of up to 100 ft (30 m) or 165 ft (50 m).

In addition to the traditional Smart features, such as line crossing, intrusion, entrance/exit and unattended luggage detection, this product includes a host of deep-learning based functionalities.

These include face recognition, multi-target type detection (recognition of facial and body features), face counting, hard hat detection (recognition of whether a hard hat is being worn, for up to 30 individuals and four regions), queue management (counting of the number of people standing in line and displaying of the waiting time for each person), human and vehicle detection, and false alarm filtering.

The product can also collect and transmit metadata related to alarm instances, which can be used to develop or support third-party applications.

Available models:
DS-2CD7146G0-IZS
DS-2CD7146G0-IZS8
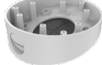
Specifications

	iDS-2CD7146G0-IZS	iDS-2CD7146G0-IZS8
Camera		
Image Sensor	1/1.8" (4 MP) progressive scan CMOS	
Minimum Illumination	Color: 0.001 lux @ (f/1.2, AGC on), B/W: 0.0003 lux @ (f/1.2, AGC on)	
Shutter Speed	1s to 1/100,000 s	
Slow Shutter	Yes	
P/N	P/N	
Day/Night	IR cut filter	
WDR	140 dB	
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°	
Power-Off Memory	Yes	
Lens		
Focus	Auto, semi-auto, manual	
Lens Type and Field of View	2.8 to 12 mm, horizontal FOV 114.5° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal FOV 141.1° to 48°	8 to 32 mm, horizontal FOV 42.5° to 15.1°, vertical FOV 23.3° to 8.64°, diagonal FOV 49.6° to 17.3°
Aperture	ƒ/1.2 to ƒ/2.5	ƒ/1.7 to ƒ/1.73
Lens Mount	Integrated	
Blue Glass Module	Reduction of ghost phenomenon	
P-Iris	Yes	
IR		
IR Range	100 ft (30 m)	165 ft (50 m)
Wavelength	850 nm	
Smart Supplemental Light	Yes	
Video		
Maximum Resolution	2680 x 1520	
Main Stream	30 fps (2680 × 1520,2560 × 1440,1920 × 1080,1280 × 720)	
Sub Stream	30 fps (704 × 480, 640 × 480)	
Third Stream	30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)	
Fourth Stream	30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)	
Fifth Stream	30 fps (704 × 480, 640 × 480)	
Custom Stream	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 supported	
H.265+	Main stream supported	
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 supported	
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	Open network video interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, 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 Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2	
Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR). Memory card encryption and health detection are supported when the products is combined with a Hikvision high-end memory card.	
Client	iVMS-4200, Hik-Connect, Hik-Central	
Web Browser	Plug-in required live view: IE 8+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+ Local service: Chrome 41.0+, Firefox 30.0+	
Image		
Smart IR	The IR LEDs on camera should support Smart IR function to automatically adjust power and 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 a video with a 128 × 128 24-bit BMP format	
Image Enhancement	BLC, HLC, 3D DNR, Defog, EIS, Distortion Correction	
Image Parameters Switching	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 V p-p, input impedance: 4.7 kΩ, interface type: non-equilibrium; 1 output (line out), 3.5 mm connector, maximum output amplitude: 3.3 V p-p, 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 debugging)	
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 200 mA (supported by all power supply types)	

Specifications (continued)

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
Counting	Yes
Intelligent Features (Deep Learning Algorithm)	
Face Recognition	Detects up to 30 faces simultaneously.
	Supports left and right swings from -60° to 60°, and up and down tilts from -30° to 30°.
	Up to 3 face libraries with up to 30,000 faces each can be configured.
	Recognizes face identity via face modeling, grading, and comparison with those found in face libraries.
	Face library encryption supported.
Multi-Target Type Detection	Supports simultaneous detection of human bodies and faces.
	8 facial features and 13 human body features can be detected.
Face Counting	Entrance/exit counting (track 30 targets simultaneously).
	Facial recognition supported.
	Supports 24-hour dynamic deduplication and face library deduplication (up to 3 face libraries with up to 30,000 faces).
	Supports reporting alarms when a detected face is the same as a face found in a library.
Hard Hat Detection	Detects up to 30 human targets simultaneously. Supports up to 4 shield regions.
Queue Management	Detects the number of people standing in line and the waiting time for each person.
	Generates reports that compare the efficiency of different lines and displays the changes in status of a line.
	Raw data can be exported for further analysis.
Premier Protection	Line crossing, intrusion, region entrance, region exiting detection.
	Alarm triggering by specified target types (human and vehicle).
	Filtering out mistaken alarms caused by target types, such as leaves, lights, animals, flags, etc.
General	
Linkage Method	Upload to FTP/NAS/memory card, notify surveillance center, send email, 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, Email
	Trigger notification: HTTP, ISAPI, alarm output, Email
Online Upgrade	Yes
Dual Backup	Yes
General Function	Anti- flicker, five streams and up to five custom streams, heartbeat, mirror, privacy masks, flash log, password reset via e-mail, pixel counter
Software Reset	Yes
Storage Conditions	-22° F to 140° F (-30° C to 60° C). Humidity of 95% or less (non-condensing).
Startup and Operating Conditions	-22° F to 140° F (-30° C to 60° C)
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, 0.83 A, max. 9.96 W; 24 VAC, 0.85 A, max. 12 W; PoE (802.3af, 36 V to 57 V), 0.35 A to 0.21 A, max. 12 W
Power Interface	Two-core dimensional block
Screw Material	Mild steel
Camera Dimensions	Ø 5.5" x 4.8" (140.5 mm x 122.6 mm)
Camera Weight	2.1 lbs (950 g)
Metadata	
Metadata	Metadata from intrusion detection, line crossing detection, region entrance detection, region exiting detection, unattended baggage detection, object removal and queue management is supported.

Accessories

WML + PC130 Wall Mount Long + 130 mm Pendant Cap	**CPM + PC130** Ceiling Pendant Mount + 130 mm Pendant Cap	**CPME** Ceiling Pendant Mount Extension Pipe	**RCM-1** Recessed Ceiling Mount	**CM** Corner Mount	**AB135** 15° Angled Base	**PM** Pole Mount

Dimensions

122.6 (4.8")

6-Ø4.5 (0.2")

83.5

83.5 (3.3")

FRONT

46.0 (1.8")

Ø121 (4.8")

Ø140.5 (5.5")

HIKVISION
Rev. 061120NA