

iDS-2CD7A86G2-IZHS(Y)(/5G) 8MP DeepinView Moto Varifocal Bullet Camera

DeepinView















Hikvision has been dedicated to develop products with security since established.

Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 8 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong backlight due to 140 dB AWDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)
- Capture vehicles and humans of different speed clearly via ShotN technology
- High frame rate, up to 8MP@60fps and 2MP@120fps
- Built-in heater to ensure clear image under rainy or snowy weather
- Built-in G-sensor for vibration detection
- Built-in power meter for historical power statistics



Function

Face Capture

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

Perimeter Protection

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leafs, lights, animal, flag, etc.

Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.

Queue Management

With embedded deep learning based algorithms, the camera detects queuing-up people number and waiting time of each person. It can generate reports to compare the efficiency of different queuing-ups and display the changing status of one queue, and supports raw data export for further analysis.

Regional People Counting

With the embedded deep learning algorithms, the camera supports people density detection and will upload detection data through scheduled uploading, number of people change uploading and congestion level uploading. It also supports number of people exception detection and waiting time exception detection.

On/Off Duty Detection

With the embedded deep learning algorithms, the camera supports absence detection and on/off duty detection. It can detect the on/off duty status and people number changes in a predefined area.

Heat Map

The camera can generate a graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.

Multi-Dimension People Counting

With the embedded deep learning algorithms, the camera integrates multiple intelligences. It counts persons and compares them with the built-in face picture library to remove duplicates. It counts persons and reports an alarm simultaneously to achieve both the entrance control and people counting.

Hard Hat Detection

With the embedded deep learning algorithms, the camera detects the persons in the specified region. It detects whether the person is wearing a hard hat, and reports an alarmif not.



Specification

Camera				
Image Sensor	1/1.8" Progressive Scan CMOS			
Max. Resolution	3840 × 2160			
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, AGC ON),B/W: 0 Lux with IR			
Shutter Time	1 s to 1/100,000 s			
Day & Night	IR cut filter,			
Day & Night	Blue glass module (less ghost phenomenon)			
Lens				
Facel Leadth & FOV	2.8 to 12 mm, horizontal FOV 104° to 41.2°, vertical FOV 54.2° to 23.1°, diagonal FOV 126.5° to 47.3°			
Focal Length & FOV	8 to 32 mm, horizontal FOV 41.8° to 15°, vertical FOV 22.9° to 8.5°, diagonal FOV 48.7°			
	to 17.1°			
Focus	Auto,Semi-auto,Manual			
Iris Type	P-iris P-iris			
Aperture	2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73			
DORI				
DORI	Wide: 2.8 to 12 mm: D (Detect): 87 m, O (Observe): 34.5 m, R (Recognize): 17.4 m, I (Identify): 8.7 m 8 to 32 mm: D (Detect): 218 m, O (Observe): 86.5 m, R (Recognize): 43.6 m, I (Identify): 21.8 m Tele: 2.8 to 12 mm: D (Detect): 216 m, O (Observe): 85.7 m, R (Recognize): 43.2 m, I (Identify): 21.6 m 8 to 32 mm: D (Detect): 580 m, O (Observe): 230.2 m, R (Recognize): 116 m, I (Identify): 58 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.			
Illuminator				
Supplement Light Type	IR			
Supplement Light Range	2.8 to 12 mm: Monitoring: 60 m; 8 to 32 mm: Monitoring: 100 m			
Smart Supplement Light	Yes			
IR Wavelength	850 nm			
Al Open Platform				
Up to 4 models, Model Specification Model type: detection model, classification model, mixed model (detection nodel)				



Video					
	Monitoring mode:				
Main Stream	50 Hz: up to 50 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1280 × 720), up to 100 fps (1920 × 1080) 60 Hz: up to 60 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080)				
iviaiii Su eaiii	*High frame rate is supported under monitoring mode only. smart mode: 50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1920 × 1080, 1280 × 720)				
Sub-Stream	50 Hz: 25 fps (1280 × 720, 704 × 480, 640 × 480) 60 Hz: 30 fps (1280 × 720, 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 (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)				
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)				
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, Fourth stream: H.265/H.264/MJPEG, Fifth 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				
Bit Rate Control	CBR,VBR				
Scalable Video Coding (SVC)	H.264 and H.265 encoding				
Region of Interest (ROI)	4 fixed regions for each stream				
Target Cropping	Yes				
e-PTZ	Support Patrol and Auto Tracking settings				
Audio					
Audio Type	Mono sound				
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC				
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)				
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz				
Environment Noise Filtering	Yes				
Network					
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, ARP, WebSocket, WebSockets				
Simultaneous Live View	Up to 20 channels				
API	ISAPI,SDK,ISUP,OTAP,ONVIF (ProfileS, ProfileG, ProfileT, ProfileM)				
User/Host	Up to 32 users 3 user levels: administrator, operator, and user				



Security	Password protection, complicated password, HTTPS encryption, 802.1X authentica (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 LG TLS 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256				
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.				
Client	iVMS-4200,Hik-Connect,Hik-Central				
Web Browser	Plug-in required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+				
Mobile Communication					
Standard	-5G: 5G NR/LTE-FDD/LTE-TDD				
Frequency	-5G: 5G NR: n41/n77/n78/n79 LTE-FDD: B1/B3/B5/B8 LTE-TDD: B38/39/B40/B41				
SIM Card Type	-5G: Micro SIM				
Image					
Image Parameters Switch	Yes				
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by clients of tware or web browser				
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger				
Wide Dynamic Range (WDR)	140 dB				
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog				
SNR	≥ 52 dB				
Privacy Mask	8 programmable polygon privacy masks				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.				
Image Stabilization	EIS				
Interface					
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)				
Ethernet Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port				
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB				
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)				
Audio	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: $4.7 \text{ K}\Omega$, interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vp output impedance: 100Ω , interface type: non-equilibrium, mono sound				
RS-485	-Y: 1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)				
Reset Key	Yes				
Power Output	-Y: 12 VDC, max. 100 mA				



Event					
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, video quality diagnosis, exception (network disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD error), vibration detection				
Smart Event	scene change detection, audio exception detection, defocus detection				
Linkage	Upload to FTP/NAS/memory card,notify surveillance center, send email, trigger alarm				
Litikage	output,trigger recording,trigger capture,audible warning				
Deep Learning Function					
Multi-target-type Detection	Supports simultaneous detection and capture of human body, face, and vehicle, Gets 7 face features, Gets 13 human body features, Gets 2 vehicle features, Supports counting the number of line crossing targets by type, including human body, non-motor vehicle, motor vehicle, Supports dynamic mosaic mask				
Face Capture	Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame simultaneously and uploads up to 10 face pictures per second, Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°, Uploads face with background and closed-up face pictures, Supports best shot and quick shot for capture mode, Supports dynamic mosaic mask, Gets 7 face features				
Face Comparison	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total, Supports face library encryption				
People Counting	Supports Multi-Dimension People Counting, Supports counting, displaying and exporting the people flow data of entering, exiting and passing by (The data is stored in the flash.), Supports real-time uploading and uploading by statistic cycle, Supports generating daily, weekly, monthly or annually reports, Supports dynamic deduplication based on face picture comparison, and can filter out the target with the same custom face pictures, same attributes, or filter out repeated invalid targets within the set time interval, Supports face feature deduplication, Supports people flow data replenishment				
Queue Management	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: regional people queuing-up, waiting time detection Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue Supports raw data export for further analysis Supports real-time data uploading and scheduled data uploading Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold Waiting time detection: supports 1 alarm trigger condition, including greater than threshold				



Davi mastau Duataati au	Line crossing, intrusion, region entrance, region exiting
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle) Support combined event alarm triggering
	A graphic description of visits (by calculating amount of people or amount of dwell
Heat Map	time) in a configured area.,
heat Map	
	Two report types are available, space heat map and time heat map line chart.
Hard Hat Detection	Detects up to 30 human targets simultaneously
	Supports up to 4 shield regions
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting
	detection, face capture, multi-target-type detection
	Supports up to 8 detection regions, and independent arming schedule and linkage method
	Supports 3 detection modes: people density detection, number of people exception
	detection, waiting time exception detection
	Supports parameter settings: alarmtimes per exception, alarminterval, first alarm
	delay
	Supports searching real-time number of people
	People density detection: supports scheduled uploading, number of people change
Regional People Counting	uploading, congestion level uploading
	Number of people exception detection: supports 6 alarm trigger conditions, includin
	greater than threshold A, less than threshold A, equal to threshold A, not equal to
	threshold A, greater than threshold A and less than threshold B, less than threshold A
	or greater than threshold B (threshold A should be less than threshold B)
	Waiting time exception detection: supports 3 alarm trigger conditions, including
	greater than threshold A, less than threshold A, greater than threshold A and less than
	threshold B (threshold A should be less than threshold B)
	Supports up to 8 detection regions, and independent arming schedule and linkage
	method
On/Off Duty Detection	Supports 2 detection modes: absence detection, on/off duty detection
	Supports parameter settings: person on duty, absence duration
General	
	without -5G:
	three-core terminal block,
	12 VDC ± 20%, 2.06 A, max. 24.7 W,
	24 VAC ± 20%, 1.68 A, max. 23.4 W,
Power	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.59 A to 0.44 A, max. 24.7 W,
	-5G:
	three-core terminal block,
	12 VDC ± 20%, 2.06 A, max. 24.7 W,
	24 VAC ± 20%, 1.68 A, max. 23.4 W
Material	Aluminum alloy body
N	With -Y: Ø140 mm × 377.4 mm (Ø5.5" × 14.9"), Without -Y: Ø144.1 mm × 374.7 mm
Dimension	(Ø5.7" × 14.8")
Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")
Veight	Approx. 2170 g (4.78 lb.)
With Package Weight	Without -Y: Approx. 3364 g (7.42 lb.), -Y: Approx. 3275 g (7.22 lb.)
Storage Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)
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Startup and Operating Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)			
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	Heartbeat,anti-banding,one-key reset,mirror,password protection,flashlog			
Heater	Yes			
Demist	Yes			
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6 output alarm interfaces			
Integrated Connector Panel	-Y: No			
Approval				
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015			
Safety	CB: IEC 62368-1:2014+A11, CE-LVD: EN 62368-1:2014/A11:2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1:2005, LOA: IEC/EN 60950-1			
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006			
Protection	IP67:IEC 60529-2013,IK10:IEC 62262:2002			
Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)			
Automotive and Railway	EN50121-4			
Other	PVC FREE			

Typical Application

 $Hik vision\ products\ are\ classified\ into\ three\ levels\ according\ to\ their\ anti-corrosion\ performance.\ Refer\ to\ the\ following\ description\ to\ choose\ for\ your\ using\ environment.$

With -Y model: This model has MODERATE PROTECTION. Without -Y model: This model has NO SPECIFIC PROTECTION.

Level	Description
	Hikvision products at this level are equipped for use in
Top-level protection	areas where professional anti-corrosion protection is a
rop-rever protection	must. Typical application scenarios include coastlines,
	docks, chemical plants, and more.
	Hikvision products at this level are equipped for use in
	areas with moderate anti-corrosion demands. Typical
Moderate protection	application scenarios include coastal areas about 2
	kilometers (1.24 miles) away from coastlines, as well as
	areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in



areas where no specific anti-corrosion protection is needed.

Available Model

iDS-2CD7A86G2-IZHS(2.8-12mm)

iDS-2CD7A86G2-IZHS(8-32mm)

iDS-2CD7A86G2-IZHSY/5G(2.8-12mm)

iDS-2CD7A86G2-IZHSY/5G(8-32mm)

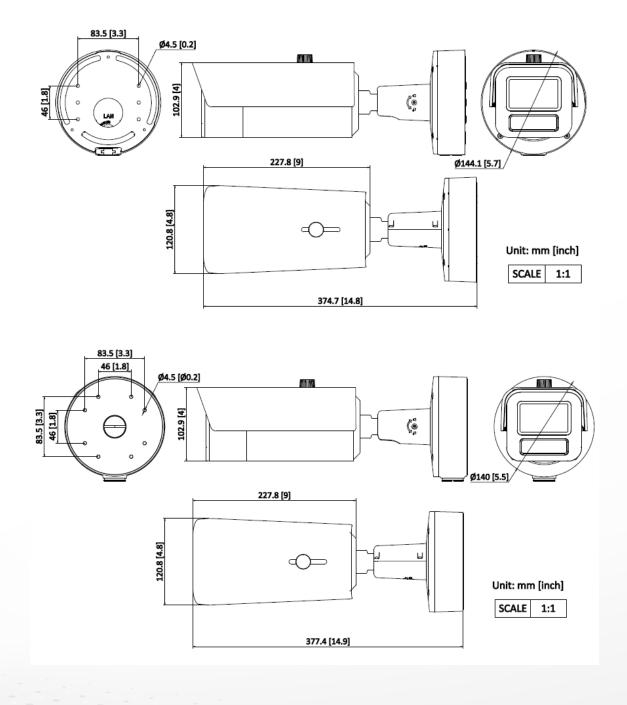
iDS-2CD7A86G2-IZHS/5G(2.8-12mm)

iDS-2CD7A86G2-IZHS/5G(8-32mm)

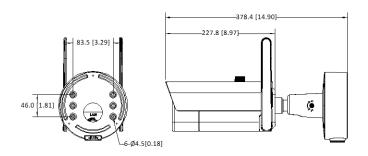
iDS-2CD7A86G2-IZHSY(2.8-12mm)

iDS-2CD7A86G2-IZHSY(8-32mm)

Dimension



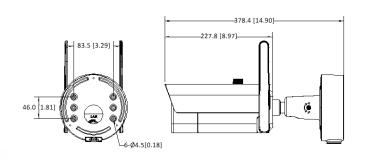


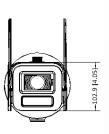




Unit: mm [inch]

SCALE 1:1





Unit: mm [inch]

SCALE 1:



Accessory

Optional

DS-1475ZJ-SUS	DS-1476ZJ-SUS	DS-1275ZJ-S-SUS	DS-1475ZJ-Y	DS-1476ZJ-Y
		iB	Ann	

Installation Methods

Vertical Pole Mounting DS-1475ZJ-SUS	Vertical Pole Mounting DS-1275ZJ-S-SUS	Vertical Pole Mounting DS-1475ZJ-Y	Corner Mounting DS-1476ZJ-SUS	Corner Mounting DS-1476ZJ-Y

See Far, Go Further



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