

iDS-2CD7D46G2E-IZHSY 4 MP DeepinView Moto Varifocal Dome Camera



















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 4 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Capture vehicles and humans of different speed clearly via ShotN technology
- Clear imaging against strong back light due to 150 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)
- High frame rate, up to 2MP@120fps and 4MP@60fps
- Built-in dual-mic and speaker for real-time audio security
- Built in 1 TB SSD for edge storage (optional)
- 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 alarm if not.



Specification

Camera			
Image Sensor	1/1.8" Progressive Scan CMOS		
Max. Resolution	2688 × 1520		
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, AGC ON),B/W: 0 Lux		
wiii. iiiumination	with IR, IR Switching Auto		
Shutter Time	1 s to 1/100,000 s		
Day & Night	IR cut filter, Blue glass module (less ghost phenomenon)		
Angle Adjustment	Pan: 0° to 355°,tilt: 0° to 75°,rotate: 0° to 355°		
Lens			
Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm and 8 to 32 mm optional		
	2.8 to 12 mm:		
	horizontal FOV 114.6° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal FOV 141.3° to		
Focal Length & FOV	48.1°		
	8 to 32 mm:		
	horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3°		
Focus	Auto, Semi-auto, Manual		
Iris Type	P-iris		
Aperture	2.8 to 12 mm: F1.38 to F2.53, 8 to 32 mm: F1.7 to F1.73		
DORI			
	2.8 to 12 mm:		
	D (Detect): 149.0 m, O (Observe): 59.1 m, R (Recognize): 29.8 m, I (Identify): 14.9 m		
DORI	8 to 32 mm:		
DOM	D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 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: 40 m; 8 to 32 mm: Monitoring: 60 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 model and		
	classification model)		
Video			
	Monitoring mode:		
	50 Hz: up to 50 fps (2688 × 1520, 1280 × 720), up to 100 fps (1920 × 1080)		
	60 Hz: up to 60 fps (2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080)		
Main Stream	*High frame rate is supported under monitoring mode only.		
	smart mode:		
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)		
	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)		



	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)
Sub-Stream	60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
	50 Hz: 25 fps (704 × 576, 640 × 480)
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)
	50 Hz: 25 fps (704 × 576, 640 × 480)
Fifth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)
	Main stream: H.265+/H.265/H.264+/H.264,
Video Compression	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 8 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
<u> </u>	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps
Audio Bit Rate	(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	
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,
Protocols	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS,
	WebSocket, WebSockets
Simultaneous Live View	Up to 20 channels
API	ISAPI,SDK,ISUP,OTAP,ONVIF (Profile S, Profile G, Profile T, Profile M)
	Up to 32 users
User/Host	3 user levels: administrator, operator, and user
	Password protection, complicated password, HTTPS encryption, 802.1X authentication
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest
Security	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, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256
Client	iVMS-4200,Hik-Connect,Hik-Central
	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR),
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health
	detection are supported.



	Plug-in required live view: IE 10, IE 11,			
Web Browser	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+			
Image				
Image Parameters Switch	Yes			
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by client software or web browser			
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger			
Wide Dynamic Range (WDR)	150 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			
O	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB,			
On-Board Storage	With -1T: Built-in 1 TB SSD storage (1 TB device model supports)			
Built-in Microphone	Yes, 2 built-in microphones			
Built-in Speaker	Max. power consumption: 1.5 W, max. sound pressure level: 98 dB, speaker range: 10 m			
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 Vpp output impedance: 100Ω , interface type: non-equilibrium, mono sound			
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)			
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)			
Reset Key	Yes			
Power Output	12 VDC, max. 100 mA			
Event	12 VDC, IIIdX. 100 IIIA			
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 output,trigger recording,trigger capture,audible warning			
Deep Learning AI Function				
	Supports simultaneous detection and capture of human body, face, and vehicle, Gets 7 face features, Gets 13 human body features,			
Multi-target-type Detection	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			



	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°,
Face Capture	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,
Face Comparison	Supports face library encryption
	Line crossing, intrusion, region entrance, region exiting
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)
	Support combined event alarm triggering
	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,
People Counting	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
	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
Queue Management	Supports raw data export for further analysis
queue Management	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
	A graphic description of visits (by calculating amount of people or amount of dwell
Heat Map	time) in a configured area.,
	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
victadata	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: alarm times per exception, alarm interval, first alarm
Regional People Counting	delay
	Supports searching real-time number of people
	People density detection: supports scheduled uploading, number of people change
	uploading, congestion level uploading
	Number of people exception detection: supports 6 alarm trigger conditions, including
	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
On/Off Duty Detection	method
	Supports 2 detection modes: absence detection, on/off duty detection
	Supports parameter settings: person on duty, absence duration
General	West at
	With -1T:
	three-core terminal block,
	12 VDC ± 20%, 1.22 A, max. 14.6 W,
	24 VAC ± 20%, 0.88 A, max. 13.7 W,
Power	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.37 A to 0.28 A, max. 16.8 W, Without -1T:
	three-core terminal block,
	12 VDC ± 20%, 1.28 A, max. 15.3 W,
	24 VAC ± 20%, 0.91 A, max. 13.7 W,
	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.36 A to 0.27 A, max. 15.2 W
Material	Base: metal, cover: metal
Dimension	Ø144.3 mm × 114.1 mm (Ø5.7" × 4.5")
Package Dimension	244 mm × 174 mm × 173 mm (9.6" × 6.9" × 6.8")
Weight	Approx. 970 g (2.14 lb.)
With Package Weight	Approx. 1461 g (3.23 lb.)
Storage Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)
Startup and Operating	With -H: -40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing),
Conditions	Without -H: -30 °C to 65 °C (-22 °F to 149 °F). Humidity 95% or less (non-condensing)
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Heartbeat, one-key reset, mirror, password protection
Cable Length	0.25 m (0.8 ft.)
Heater	-H: Yes



Device Management Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6 output alarm interfaces Approval 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, EMC RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015 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		
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 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	Device Management	
EMC 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 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 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	Approval	
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IC: ICES-003: Issue 7,		61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021,
KC: KN32: 2015, KN35: 2015 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 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	EMC	RCM: AS/NZS CISPR 32: 2015,
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 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		IC: ICES-003: Issue 7,
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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		CE-RoHS: 2011/65/EU,
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Anti-Corrosion Protection -Y: NEMA 4X (NEMA 250-2018) Automotive and Railway EN50121-4		Reach: Regulation (EC) No 1907/2006
Automotive and Railway EN50121-4	Protection	IP67: IEC 60529-2013,IK10: IEC 62262:2002
	Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)
Other PVC FREE	Automotive and Railway	EN50121-4
	Other	PVC FREE

Typical Application

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

-Y model: This model has MODERATE PROTECTION.

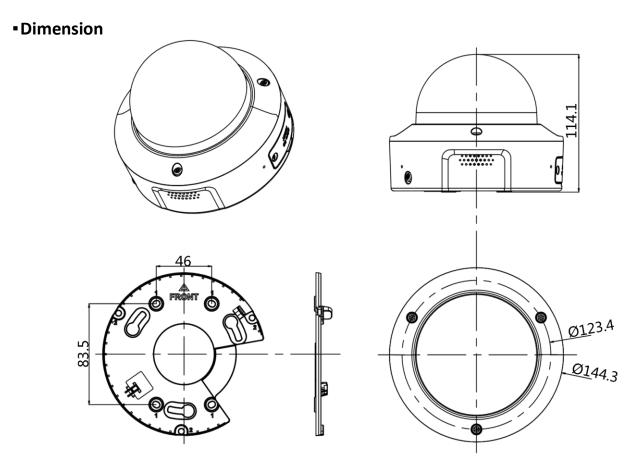
Without -Y model: This model has NO SPECIFIC PROTECTION.

Level	Description
	Hikvision products at this level are equipped for use in areas
Top-level protection	where professional anti-corrosion protection is a must.
Top-level protection	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 application
Moderate protection	scenarios include coastal areas about 2 kilometers (1.24
	miles) away from coastlines, as well as areas affected by acid
	rain.
	Hikvision products at this level are equipped for use in areas
No specific protection	where no specific anti-corrosion protection is needed.

Available Model

iDS-2CD7D46G2E-IZHSY(2.8-12mm)





Unit: mm

Accessory

Optional

DS-1271ZJ-140-DM 45 Pendant Mount	DS-1475ZJ-SUS Vertical pole mount	DS-1227ZJ-DM32 In-ceiling mount	DS-1476ZJ-SUS Corner mount	DS-1280ZJ-DM45 Junction box
I				



DS-1281ZJ-DM23 Inclined ceiling mount	DS-1475ZJ-Y Vertical pole mount	DS-1476ZJ-Y Corner mount	DS-1273ZJ-160-AK S Wall mount	DS-2280ZJ-WA140 Junction box
	ann ann			
	DC 222271 14/4 1 4 4			
DS-2200ZJ-WA-140 Wall mount	DS-2200ZJ-WAJ-14 0 Wall mount	DS-2210ZJ-WA-140 Pendant Mount	DS-4220ZJ-WC In-ceiling mount	
	0			

See Far, Go Further



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