

iDS-2CD70C6G2/E-IHSYR 12MP DeepinView Varifocal Box Camera With Housing

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 12 MP resolution, 16:9 aspect ratio
- Excellent low-light performance via DarkFighter2.0 technology
- Clear imaging against strong back light due to 120 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 (IP66) and corrosion resistant (NEMA 4X)
- 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	4000 × 3000			
Min. Illumination	Color: 0.0054 Lux @ (F1.2, AGC ON),B/W: 0.002 Lux @ (F1.2, AGC ON)			
Shutter Time	1 s to 1/100,000 s			
Day & Night	IR cut filter,Blue glass module (less ghost phenomenon)			
Lens				
Lens Type	Varifocal lens, motorized lens, 11 to 40 mm and 3.8 to 16 mm optional			
Focal Length & FOV	3.8 to 16 mm, horizontal FOV100.1° to 27.2°, vertical FOV 55.9° to 15.4°, diagonal FOV 115.1° to 31.1° 11 to 40 mm, horizontal FOV 35.4° to 11.1°, vertical FOV 19.4° to 6.2°, diagonal FOV 41.3° to 12.7°			
Lens Mount	CS mount			
Focus	Manual			
Iris Type	P-iris			
Amontuno	3.8 to 16 mm: F1.4			
Aperture	11 to 40 mm: F1.4			
DORI				
DORI	Wide: 3.8~16mm: D (Detect): 106.8 m, O (Observe): 42.4 m, R (Recognize): 21.4 m, I (Identify): 10.7 m 11~40mm: D (Detect): 309.7 m, O (Observe): 122.9 m, R (Recognize): 61.9 m, I (Identify): 31 m Tele: 3.8~16mm: D (Detect): 386.3 m, O (Observe): 153.3 m, R (Recognize): 77.3 m, I (Identify): 38.6 m 11~40mm: D (Detect): 954.8 m, O (Observe): 378.9 m, R (Recognize): 191 m, I (Identify): 95.5 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	3.8 to 16 mm: 80 m 11 to 40 mm: 120 m			
Smart Supplement Light	Yes			
IR Wavelength	850 nm			
Al Open Platform				
Model Specification	Up to 4 models, Model type: detection model, classification model, mixed model (detection model and classification model)			



Video			
	Monitoring mode:		
	50 Hz: up to 50 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1280 × 720), up to 100 fps		
	(1920 × 1080)		
	60 Hz: up to 60 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1280 × 720), up to 120 fps		
	(1920 × 1080)		
	50 Hz: 25 fps (4000 × 3000,4608 × 2592)		
Main Stroam	60 Hz: 24 fps (4000 × 3000,4608 × 2592)		
Main Stream	*High frame rate is supported under monitoring mode only.		
	smart mode:		
	50 Hz: 25 fps (4000 × 3000,4608 × 2592,3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)		
	60 Hz: 24 fps (4000 × 3000,4608 × 2592, 3840 × 2160, 3072 × 1728, 2560 × 1440, 1920		
	× 1080, 1280 × 720)		
	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)		
Sub-Stream	60 Hz: 24 fps (1280 × 720, 704 × 480, 640 × 480)		
	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)		
Third Stream	60 Hz: 24 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)		
	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)		
Fourth Stream	60 Hz: 24 fps (1280 × 720, 704 × 480, 640 × 480)		
E: (i) Ci	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)		
Fifth Stream	60 Hz: 24 fps (1280 × 720, 704 × 480, 640 × 480)		
	Main stream: H.265+/H.265/H.264+/H.264,		
	Sub-stream: H.265/H.264/MJPEG,		
Video Compression	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		
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		
AUUIU DIL NALE	(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 (ProfileS, ProfileG, ProfileT, ProfileM)		
Han /Hank	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		
	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.		
Client	iVMS-4200,Hik-Connect,Hik-Central		
	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		
Imaga Cattings	$Rotate\ mode, saturation, brightness, contrast, sharpness, AGC, white\ balance, adjustable$		
Image Settings	by client software or web browser		
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger		
Wide Dynamic Range (WDR)	120 dB		
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog		
SNR	≥ 52 dB		
Privacy Mask	8 programmable polygon privacy masks		
Image Stabilization	EIS		
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.		
Interface			
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)		
Ethernet Interface	1 RJ45 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		
Audio	1 input (line in), 1 output (line out), 3.5 mm connector		
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1 A)		
RS-485	1 RS-485 (Halfduplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)		
Reset Key	Yes		
Power Output	12 VDC, max. 100 mA		
Event			
	Motion detection (support alarm triggering by specified target types (human and		
Basic Event	vehicle)),video tampering alarm,exception (network disconnected, IP address conflict		
	illegal login, abnormal restart, HDD full, HDD error)		
Smart Event	scene change detection, audio exception detection, defocus detection		
	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm		
Linkage	output,trigger recording,trigger capture,audible warning		



Deep Learning 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 60 faces simultaneously, captures up to 60 face pictures per frame	
	simultaneously and uploads up to 10 face pictures per second,	
	Supports swing left and right from -70° to 70°, tilt up and down from -50° to 50°,	
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	
	Up to 10 facelibraries. 30,000 faces for each library. 150,000 faces in total,	
Face Comparison	Supports facelibrary 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 Munugement	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.	
	Detects up to 30 human targets simultaneously	
Hard Hat Detection	Supports up to 4 shield regions	
	•	



	Intrusion detection, line crossing detection, region entrance detection, region exiting
Metadata	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
	delay
	Supports searching real-time number of people
Designal Desails Counting	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, 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 Datastics	method
On/Off Duty Detection	Supports 2 detection modes: absence detection, on/off duty detection
	Supports parameter settings: person on duty, absence duration
General	
	24 VDC ± 20%, 1.09 A, max. 26.1 W
Power	24 VAC ± 20%, 1.74 A, max. 27 W
	PoE: IEEE 802.3bt, Type3, Class 5, 42.5 V to 57 V, 0.75 A to 0.56 A, max. 31.5W
Material	Aluminum alloy body, PP sun shield, PC front panel
Dimension	465.3 mm × 169.2 mm × 164.7 mm (18.3" × 6.7" × 6.5")
Package Dimension	615 mm × 360 mm × 225 mm (24.2" × 14.2" × 8.9")
Weight	Approx. 4485 g (9.89 lb.)
With Package Weight	Approx. 6875 g (15.2 lb.)
Storage Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italia
Languago	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, pixel counter
Heater	Yes
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and output alarminterfaces



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	
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	
	CE-RoHS: 2011/65/EU,	
Environment	WEEE: 2012/19/EU,	
	Reach: Regulation (EC) No 1907/2006	
Protection	IP66:IEC 60529-2013	
Anti-Corrosion Protection	With -Y: NEMA 4X(NEMA 250-2018)	
Automotive and Railway	With -R: 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.

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

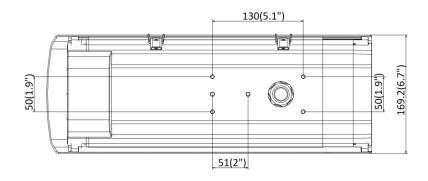
Level	Description	
	Hikvision products at this level are equipped for use in	
Top-level protection	areas where professional anti-corrosion protection is a	
Top-rever protection	must. Typical application scenarios include coastlines,	
	docks, chemical plants, and more.	
	Hikvision products at this level 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	
No specific protection	areas where no specific anti-corrosion protection is needed.	

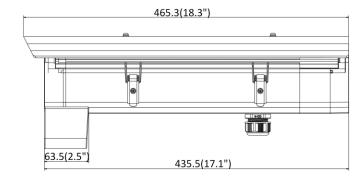
Available Model

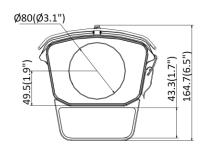
iDS-2CD70C6G2/E-IHSYR(3.8-16mm) iDS-2CD70C6G2/E-IHSYR(11-40mm)

Dimension









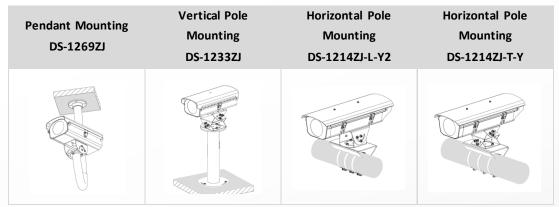
Unit: mm(inch)

Accessory

Optional

DS-1269ZJ	DS-1233ZJ	DS-1214ZJ-L-Y2	DS-1214ZJ-T-Y

Installation Methods



See Far, Go Further



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