

iDS-2CD7086G2/E-IHSYR 8MP 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 8 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong back light 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 (IP66) and corrosion resistant (NEMA 4X)
- Capture vehicles and humans of different speed clearly via ShotN technology
- High frame rate, up to 8MP@60fps and 2MP@120fps
- 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	3840 × 2160			
Min. Illumination	Color: 0.0007 Lux @ (F1.4, AGC ON),B/W: 0.0001 Lux @ (F1.4, AGC ON),B/W: 0 Lux with IR			
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 FOV 107.4° to 29.1°, vertical FOV 60° to 16.5°, diagonal FOV 123.1° to 33.4° 11 to 40 mm, horizontal FOV 38.4° to 11.9°, vertical FOV 20.9° to 6.7°, diagonal FOV 44.9° to 13.7°			
Lens Mount	CS mount			
Focus	Manual			
Iris Type	P-iris			
Aperture	3.8 to 16 mm: F1.4 11 to 40 mm: constant F1.4 throughout the zoom range			
DORI				
DORI	Wide: 3.8 to 16 mm: D (Detect): 76.0 m, O (Observe): 30.2 m, R (Recognize): 15.2 m, I (Identify): 7.6 m 11 to 40 mm: D (Detect): 220.0 m, O (Observe): 87.3 m, R (Recognize): 44.0 m, I (Identify): 22.0 m Tele: 3.8 to 16 mm: D (Detect): 320.0 m, O (Observe): 127.0 m, R (Recognize): 64.0m, I (Identify): 32.0m 11 to 40 mm: D (Detect): 800.0 m, O (Observe): 317.5 m, R (Recognize): 160.0m, I (Identify): 80.0 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:		
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)		
	*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 × 576, 640 × 480)		
Sub-Stream	60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)		
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)		
minu Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)		
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)		
routili Stream	60 Hz: 30 fps (704 × 480, 640 × 480)		
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)		
riitii Stiediii	60 Hz: 30 fps (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		
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		
Addio bit Nate	(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, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,		
	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)		
User/Host	Up to 32 users		
0301/11030	3 user levels: administrator, operator, and user		



	Password protection, complicated password, HTTPS encryption, 802.1X authentication			
Security	(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, 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 Cottings	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)	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 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 (Half duplex, 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 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
	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
Davissatas Duataatias	Support alarm triggering by specified target types (human and vehicle)
Perimeter Protection	
	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,
People Counting	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
	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
	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
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Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, face capture, multi-target-type detection		
Metadata Regional People Counting	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 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)		
On/Off Duty Detection	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: absence detection, on/off duty detection Supports parameter settings: person on duty, absence duration		
General	Supports parameter settings, person on duty, absence duration		
	24 VDC ± 20%, 1.08 A, max. 25.9 W, three-core terminal block		
Power	24 VAC ± 20%, 1.67 A, max. 26.9 W, three-core terminal block		
	PoE: IEEE 802.3bt, Type3, Class 5, 42.5 V to 57 V, 0.71 A to 0.55 A, max. 31.3W		
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)		
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, 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 6 output alarm interfaces		



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	
	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.

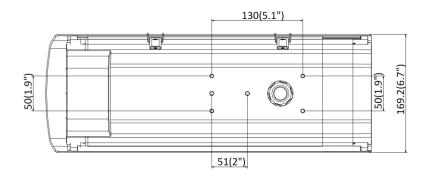
Level Description	
	Hikvision products at this level are equipped for use in areas
Top-level protection	where professional anti-corrosion protection is a must.
Top-level protection	Typical application scenarios include coastlines, docks,
	chemical plants, and more.
	Hikvision products at this level are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

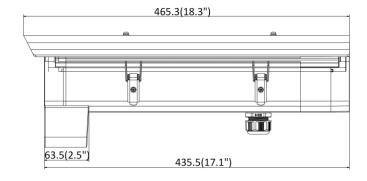
Available Model

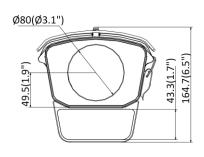
iDS-2CD7086G2/E-IHSYR(11-40mm) iDS-2CD7086G2/E-IHSYR(3.8-16mm)

Dimension









Unit: mm(inch)

Accessory

Optional

DS-1269ZJ Pendant Mount	DS-1233ZJ Pendant Mount	DS-1214ZJ-L-Y2 Horizontal pole mount	DS-1214ZJ-T-Y Horizontal pole mount
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See Far, Go Further



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