

iDS-2CD7A87G2-XZHS(Y) 8MP DarkfighterS 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 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 (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 alarm if not.



Specification

Camera					
Image Sensor	1/1.8" Progressive Scan CMOS				
Max. Resolution	3840 × 2160				
Min. Illumination	Color: 0.0005 Lux @ (F1.0, AGC ON),B/W: 0.0001 Lux @ (F1.0, 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, 2.8 to 12 mm				
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 89.7° to 43.5°, vertical FOV 48.3° to 24.3°, diagonal FOV 106.3° to 50°				
Focus	Auto,Semi-auto,Manual				
Iris Type	P-iris				
Aperture	2.8 to 12 mm: F1.0 to F1.2				
DORI					
DORI	2.8 to 12 mm: D (Detect): 204.0 m, O (Observe): 81.0 m, R (Recognize): 40.8 m, I (Identify): 20.4 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,White Light				
Supplement Light Range	2.8 to 12 mm: Monitoring: 60 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					
Main Stream	Monitoring mode: 50 Hz: up to 50 fps (3840 \times 2160, 3072 \times 1728, 2688 \times 1520, 1280 \times 720), up to 100 fps (1920 \times 1080) 60 Hz: up to 60 fps (3840 \times 2160, 3072 \times 1728, 2688 \times 1520, 1280 \times 720), up to 120 fps (1920 \times 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) 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)				



	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,			
	Sub-stream: H.265/H.264/MJPEG,			
Video Compression	Third stream: H.265/H.264,			
video compression	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			
A 1' B' D 1	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, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP,			
Protocols	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 (Profile S, Profile G, Profile T, Profile M)			
User/Host	Up to 32 users			
0361/11031	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			



	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, 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				
Privacy Mask	8 programmable polygon privacy masks				
SNR	≥ 52 dB				
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)				
	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,				
	input impedance: 4.7 K Ω , interface type: non-equilibrium,				
Audio	1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp				
	output impedance: 100 Ω , 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	-1. 12 VDC, IIIdA. 100 IIIA				
LVent	Motion detection (support alarm triggering by specified target types (human and				
	vehicle)), video tampering alarm, video quality diagnosis, exception (network				
Basic Event	disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD				
	error), vibration detection				
Smart Event	scene change detection, audio exception detection, defocus detection				
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Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm				
Daniel annina Francisco	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,				
Face Capture	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				



	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,
Poonlo Counting	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
	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
	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.,
	Two report types are available, space heat map and time heat map line chart.
Hard Hat Detection	Detects up to 30 human targets simultaneously
naru nat Detection	Supports up to 4 shield regions
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting
ivictuata	detection, face capture, multi-target-type detection



Regional People Counting	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)			
	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				
Power	With -Y: three-core terminal block, 12 VDC ± 20%, 1.88A, max. 22.5 W, 24 VAC ± 20%, 1.66A, max. 21.7 W, PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.6 A to 0.45 A, max. 25 W Without -Y: three-core terminal block, 12 VDC ± 20%, 1.78A, max. 21.3 W, 24 VAC ± 20%, 1.65A, max. 20.5 W, PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.6 A to 0.45 A, max. 23.7 W			
Material	Aluminum alloy body			
Dimension	With -Y: Ø140 mm × 377.4 mm (Ø5.5" × 14.9"), Without -Y: Ø144.1 mm × 374.7 mm (Ø5.7" × 14.8")			
Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")			
Weight	Approx. 2380 g (5.25 lb.)			
With Package Weight	Approx. 3488 g (7.69 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, anti-banding, one-key reset, mirror, password protection, flash log			
Heater	Yes			



Demist	Yes		
Dovice Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6		
Device Management	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		
	CB: IEC 62368-1: 2014+A11,		
Safoty	CE-LVD: EN 62368-1: 2014/A11: 2017,		
Safety	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	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

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.

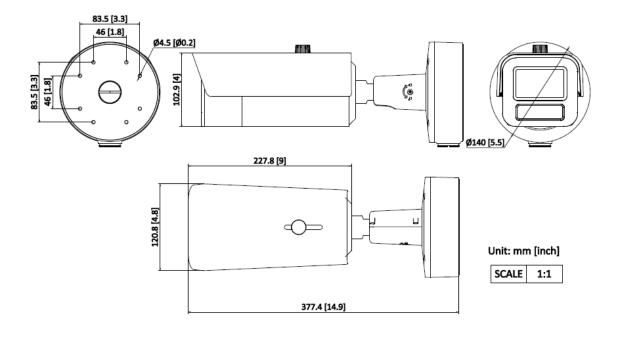
Level Description		
	Hikvision products at this level are equipped for use in areas	
Top-level protection	where professional anti-corrosion protection is a must.	
	Typical application scenarios include coastlines, docks,	
	chemical plants, and more.	
	Hikvision products at this level are equipped for 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.	

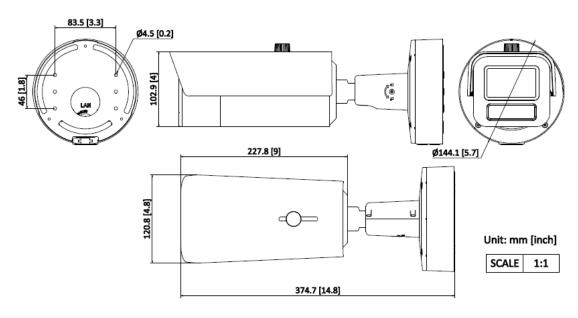
Available Model

iDS-2CD7A87G2-XZHSY(2.8-12mm) iDS-2CD7A87G2-XZHS(2.8-12mm)



Dimension







Accessory

Optional

DS-1475ZJ-SUS Vertical pole mount	DS-1476ZJ-SUS Corner mount	DS-1275ZJ-S-SUS Vertical pole mount	DS-1475ZJ-Y Vertical pole mount	DS-1476ZJ-Y Corner mount
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See Far, Go Further



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