

iDS-2CD7A47G0/P-XZHS(Y) 4 MP DarkfighterS DeepinView Varifocal Bullet 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 DarkfighterS technology
- Clear imaging against strong back light due to 140 dB WDR 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) and vandal proof (IK10)



Function

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.

Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.

Parking Management

With embedded deep learning algorithms, the camera can achieve parking space status detection and vacant parking space alarm for parking management. Both distant view mode and close view mode are supported. For the close view mode, the camera can also achieve license plate recognition. Blocklist and allowlist are available for plate categorization and separate alarm triggering.



Specification

Camera							
Image Sensor	1/1.8" Progressive Scan CMOS						
Max. Resolution	2688 × 1520						
Min. Illumination	Color: 0.0003 Lux @ (F1.0, AGC ON),B/W: 0.0001 Lux @ (F1.0, AGC ON),0 Lux with light						
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 90°,rotate: 0° to 360°						
Lens							
Focal Longth 9 FOV	2.8 to 12 mm, horizontal FOV 99.8° to 44.1°, vertical FOV 54.6° to 24.8°, diagonal FOV						
Focal Length & FOV	113.8° to 51.1°						
Focus	Auto,Semi-auto,Manual						
Iris Type	P-iris						
Aperture	F1.0 to F1.2						
DORI							
	Wide: D (Detect): 63.4 m, O (Observe): 25.2 m, R (Recognize): 12.7 m, I (Identify): 6.3						
DON	m						
DORI	Tele: D (Detect): 140.7 m, O (Observe): 55.8 m, R (Recognize): 28.1 m, I (Identify): 14.1						
	m						
Illuminator							
Supplement Light Type	Hybrid (IR and White Light)						
Supplement Light Range	Up to 50 m						
Smart Supplement Light	Yes						
IR Wavelength	850 nm						
Video							
	50 Hz:						
	25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)						
Main Store on	50 fps (2560 × 1440, 1920 × 1080, 1280 × 720)						
Main Stream	60 Hz:						
	30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)						
	30 1p3 (2000 × 1320, 2300 × 1440, 1320 × 1000, 1200 × 720)						
Sub Stroam	60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)						
Sub-Stream							
	60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)						
Third Stroom	60 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 50 Hz: 25 fps (704 × 576, 640 × 480)						
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Fourth Stream	60 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 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)						
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Video Dit Date	22 What to 9 Mhas						
Video Bit Rate	32 Kbps to 8 Mbps						
H.264 Type	Baseline Profile, Main Profile, High Profile Main Profile						
H.265 Type							
Bit Rate Control	CBR,VBR						
Scalable Video Coding (SVC)	H.264 and H.265 encoding						
Target Cropping	Yes						
Region of Interest (ROI)	4 fixed regions for each stream						
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						
Audio bit Rate	(MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)						
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 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	Open Network Video Interface (Profile S, Profile G, Profile T, Profile M),ISAPI,SDK,ISUP						
	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						
Ü	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	2000.00.100.01.01.00.7,1.100.02.007, 200.007						
Image Parameters Switch	Yes						
mage i diameters switch	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable						
Image Settings	by client software or web browser						
Day/Night Switch							
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger,Video Trigger 140 dB						
Wide Dynamic Range (WDR)							
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, 1 A)
	1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 Vpp, input impedance:
	4.7 KΩ, interface type: non-equilibrium,
Audio	1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 Vpp, output
	impedance: 100 Ω , interface type: non-equilibrium
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
	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
Sinare Evene	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm
Linkage	output,trigger recording,trigger capture,audible warning
Deep Learning Function	output, trigger recording, trigger cupture, addition warring
beep rearring runetion	Line crossing, intrusion, region entrance, region exiting
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)
Termiteer Frotection	Support combined event alarm triggering
	Intrusion detection, line crossing detection, region entrance detection, region exiting
Metadata	detection, road traffic
	Smart Function:
	Support license plate recognition of vehicles and motorcycles (only in checkpoint
	scenario)
	Support vehicle attribute detection, including vehicle type, color, brand, driving
	direction, etc.
	Support vehicle and non-vehicle counting
	Blocklist and allowlist: up to 10,000 records
	LPR Countries/Regions:
Road Traffic and Vehicle Detection	4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/region
	Accuracy (Under recommended installation and lighting conditions):
	License plate recognition rate ≥98%
	Capture rate ≥99%
	Driving direction accuracy rate ≥98%
	Vehicle Capture Speed:
	Front installation in checkpoint scenario: up to 120 km/h
	Side installation: up to 80 km/h
	Capture Mode: License Plate and Vehicle Mode, Vehicle Priority Mode



	Support distant view mode and close view mode					
	Distant view mode: support status detection on up to 40 parking spaces, parking					
Parking Management	duration detection, and vacant parking space alarm					
	Close view mode: support status detection on up to 4 parking spaces, license plate					
	recognition, parking timeout alarm, and vacant parking space alarm					
General						
	Three-core terminal block,					
Power	12 VDC ± 20%, 1.90 A, max. 22.7 W,					
Power	24 VAC ± 20%, 1.39 A, max. 22.3 W,					
	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					
Material	Aluminum alloy body					
Dimension	Ø140 mm × 378.4 mm (Ø5.5" × 14.9")					
Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")					
Weight	Approx. 2280 g (5.0 lb.)					
With Package Weight	Approx. 3370 g (7.4 lb.)					
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)					
Startup and Operating						
Conditions	-40 °C to 60 °C (-40 °F to 140 °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,anti-banding,one-key reset,mirror,password protection,flash log					
Heater	Yes					
Demist	Yes					
	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6					
Device Management	output alarm interfaces					
Approval						
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN					
	50130-4: 2011 +A1: 2014,					
EMC	RCM: AS/NZS CISPR 32: 2015,					
	IC: ICES-003: Issue 7,					
	KC: KN32: 2015, KN35: 2015					
	UL: UL 62368-1,					
	CB: IEC 62368-1: 2014+A11,					
Safety	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	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					



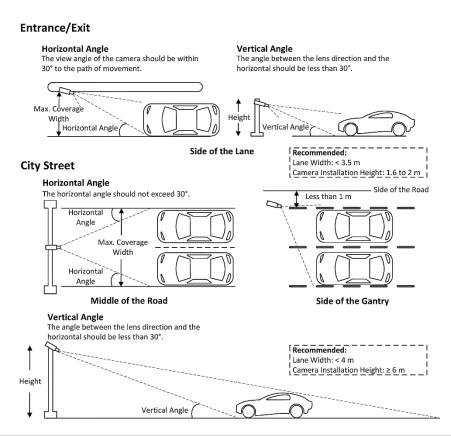
Typical Application

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

Installation Recommendation



Camera Position	Lens	Height (m)	Suggested Vertical Angle	Suggested Trigger Distance (m)	Max. Coverage Width	Max. Horizontal Angle	Vertical Angle Range	Capture Range (m)
Side of the Lane	2.8 to 12 mm	1.5	20°	4	4.5	30°	15° to 30°	2.5 to 5.5
Side of the	2.8 to 12	2	20°	5.5	4.5	30°	15° to 30°	3.5 to 7.5



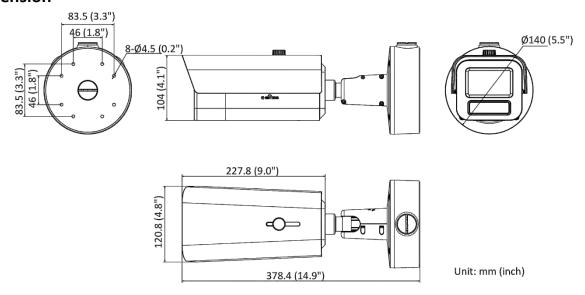
Lane	mm							
Side of the	2.8 to 12	2.5	20°	6.5	4.5	30°	15° to 30°	4.5 to 9
Lane	mm							
Side of the	8 to 32	3	20°	8	6	30°	15° to 30°	5 to 11
Lane	mm							
Side of the	8 to 32	4	20°	11	6	30°	15° to 30°	6 to 14
Lane	mm							
Side of the	8 to 32	5	20°	13.5	6	30°	15° to 30°	8.5 to 18
Lane	mm							
Side of the	8 to 32	6	20°	16.5	6	30°	15° to 30°	10 to 22
Lane	mm							
Middle of	8 to 32	3	20°	8	12	30°	15° to 30°	5 to 11
the Road	mm							
Middle of	8 to 32	4	20°	11	12	30°	15° to 30°	6 to 14
the Road	mm							
Middle of	8 to 32	5	20°	13.5	12	30°	15° to 30°	8.5 to 18
the Road	mm							
Middle of	8 to 32	6	20°	16.5	12	30°	15° to 30°	10 to 22
the Road	mm							

^{*}Note: The installation diagram is for reference only. The actual scenario and appearance may vary.

Available Model

iDS-2CD7A47G0/P-XZHSY(2.8-12mm) iDS-2CD7A47G0/P-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
Ann				



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