

iDS-2CD7547G0/P-XZHS(Y) 4 MP DarkfighterS DeepinView ANPR 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 DarkfighterS technology
- Efficient H.265+ compression technology to save bandwidth and storage
- Clear imaging against strong back light due to 140 dB true WDR technology
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67) and vandal proof (IK10)
- Unique PTRZ capability for efficient installation



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.



Camera							
Image Sensor	e 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						
6	IR cut filter						
Day & Night	Blue glass module to reduce ghost phenomenon						
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 85°, rotate: 0° to 355°						
Lens							
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 104.2° to 44.1°, vertical FOV 55.3° to 24.8°, diagonal FOV 126.8° to 51.1°						
Focus	Auto,Semi-auto,Manual						
Iris Type	P-iris						
Aperture	F1.0 to F1.2						
DORI							
DORI Wide: D (Detect): 63.4 m, O (Observe): 25.2 m, R (Recognize): 12.7 m, I (Iden m Tele: D (Detect): 140.7 m, O (Observe): 55.8 m, R (Recognize): 28.1 m, I (Iden m							
Illuminator							
IR Wavelength	850 nm						
Smart Supplement Light	Yes						
Supplement Light Range	2.8 to 12 mm: 30 m						
Supplement Light Type	Hybrid (IR and White Light)						
Video							
Main Stream	50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720)						
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (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)						
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)						
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 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 CompressionThird 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						



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Н.264 Туре	Baseline Profile, Main Profile, High Profile				
Н.265 Туре	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				
	Yes				
Target Cropping	res				
Audio	CA When IC 744 Juni IC 744 Juni VIC When IC 722 4) IC When IC 720) I22 to 402 When				
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)				
Environment Noise Filtering	Yes				
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz				
Audio Type	Mono sound				
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC				
Network					
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP, 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	ONVIF (Profile S, Profile G, Profile T, Profile M), ISAPI, SDK, ISUP				
	Up to 32 users				
User/Host	3 user levels: administrator, operator, and user				
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentic (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Netwo Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit TLS 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256				
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR),				
Client	iVMS-4200,Hik-Connect,Hik-Central				
Web Browser	Plug-in required live view: IE 10, IE 11, 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,Video Trigger				
Wide Dynamic Range (WDR)	140 dB				
Privacy Mask	8 programmable polygon privacy masks				
SNR	\geq 52 dB				
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog				
Image Stabilization	EIS				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.				
Interface					
	1 Vp-p Composite Output (75 Ω /CVBS) (Only for debugging)				
Video Output	T Ab-b composite outhor (1.2 73/CAP2) (Ouilà ior dendRRink)				



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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					
Audio	 1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium, 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 					
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					
Alarm	1 input, 1 output (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					
Wiegand	1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72 bit)					
Event						
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception (network disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD error),video quality diagnosis,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 Function						
	Line crossing, intrusion, region entrance, region exiting					
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)					
	Support combined event alarm triggering					
Metadata Intrusion detection,line crossing detection,region entrance detection detection,road traffic						
Road Traffic and Vehicle Detection	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: 4 areas (Europe, Middle East, Asia-Pacific, Africa) and more than 124 countries/regions 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					



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	Support distant view mode and close view mode				
Parking Management	Distant view mode: support status detection on up to 40 parking spaces, parking				
	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 spaces, incerse place				
General					
General	12 VDC ± 20%, 2.01 A, max. 24.01 W, three-core terminal block;				
Power	$24 \text{ VAC} \pm 20\%$, 1.51 A, max. 24.01 W, three-core terminal block;				
1 GWCI	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.60 A to 0.44 A, max. 25.43 W				
Material	Aluminum alloy body				
Dimension	Ø160 mm × 159.5 mm (Ø6.3" × 6.3")				
Package Dimension	251 mm × 215 mm × 189 mm (9.9" × 8.5" × 7.4")				
Weight	Approx. 2100 g (4.62 lb.)				
With Package Weight	Approx. 2250 g (4.02 lb.)				
	Approx. 2000 B (0.20 m.)				
Startup and Operating Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
Storage 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				
De des Marsach	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6				
Device Management	output alarm interfaces				
Approval					
	FCC: 47 CFR Part 15, Subpart B,				
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN				
ENAC	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				



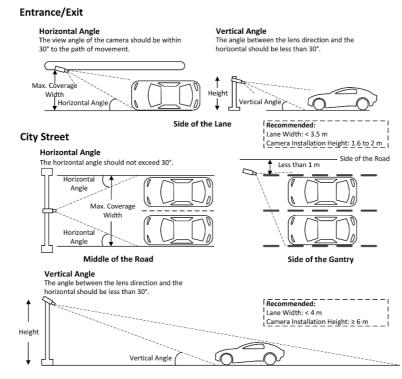
Typical Application

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	2.8 to 12	1.5	20°	4	4.5	30°	15° to 30°	2.5 to 5.5
Lane	mm							
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



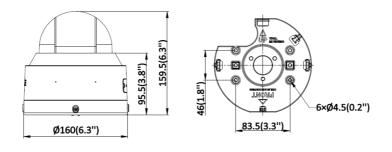
Lane	mm							
Side of the Lane	8 to 32 mm	3	20°	8	6	30°	15° to 30°	5 to 11
Side of the Lane	8 to 32 mm	4	20°	11	6	30°	15° to 30°	6 to 14
Side of the Lane	8 to 32 mm	5	20°	13.5	6	30°	15° to 30°	8.5 to 18
Side of the Lane	8 to 32 mm	6	20°	16.5	6	30°	15° to 30°	10 to 22
Middle of the Road	8 to 32 mm	3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

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

Available Model

iDS-2CD7547G0/P-XZHS(2.8-12mm) iDS-2CD7547G0/P-XZHSY(2.8-12mm)

Dimension





Camera Mounting Hole (mm)	Camera Mounting Hole (inch)		
Double Gang(4ר4.5)	Double Gang(4ר0.2'')		
Single Gang(2ר4.5)	Single Gang(2ר0.2'')		

Unit: mm(inch)

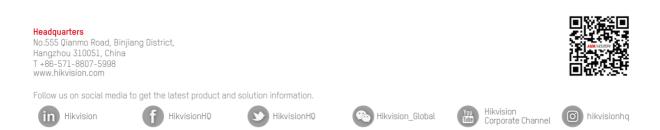


Accessory

Optional



*Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y bracket models).



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