

## 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.



# 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 9 Night	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 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 (Identify): 6.3 m  Tele: D (Detect): 140.7 m, O (Observe): 55.8 m, R (Recognize): 28.1 m, I (Identify): 14.1 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)						
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, 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 8 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	ies					
Audio	CAN 10 744   10 744   10 745   10 722					
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)					
<b>Environment Noise Filtering</b>	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						
	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	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					
	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					
Security	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),					
Notwork Storago						
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health					
Clinat	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					
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, white balance, AGC, adjustable					
age settings	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	≥ 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						
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)					
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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 K $\Omega$ , interface type: non-equilibrium,						
Addio	1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp						
	output impedance: 100 $\Omega$ , 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							
	Motion detection (support alarm triggering by specified target types (human and						
	vehicle)),video tampering alarm,exception (network disconnected, IP address conflict,						
Basic Event	illegal login, abnormal restart, HDD full, HDD error), video quality diagnosis, vibration						
	detection						
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							
	Line crossing, intrusion, region entrance, region exiting						
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)						
	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						
Road Traffic and Vehicle Detection	LPR Countries/Regions:						
	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				
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 space alarm				
General					
	12 VDC ± 20%, 2.01 A, max. 24.01 W, three-core terminal block;				
Power	24 VAC ± 20%, 1.51 A, max. 24.01 W, three-core terminal block;				
	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. 2850 g (6.28 lb.)				
Startup and Operating	40 °C to 60 °C ( 40 °C to 140 °C) Humidity 00°C or loss (non-condensing)				
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, Italiar				
Lawana	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				
	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and				
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				
F140	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				
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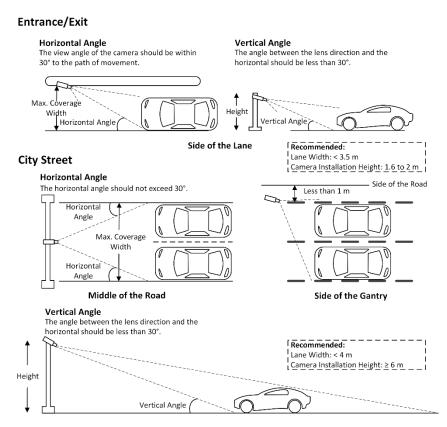
## Typical Application

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



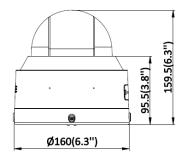
Lane	mm							
Side of the Lane	8 to 32 mm	3	20°	8	6	30°	15° to 30°	5 to 11
Side of the Lane	8 to 32 mm	4	20°	11	6	30°	15° to 30°	6 to 14
Side of the Lane	8 to 32 mm	5	20°	13.5	6	30°	15° to 30°	8.5 to 18
Side of the Lane	8 to 32 mm	6	20°	16.5	6	30°	15° to 30°	10 to 22
Middle of the Road	8 to 32 mm	3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

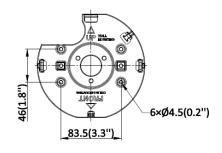
<sup>\*</sup>Note: The installation diagram is for reference only. The actual scenario and appearance may vary.

### Available Model

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

### Dimension





Unit: mm(inch)



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



#### Accessory

### Optional

DS-1273ZJ-160	DS-1475ZJ-SUS	DS-1476ZJ-SUS	DS-1475ZJ-Y	DS-1476ZJ-Y
Wall mount	Vertical pole mount	Corner mount	Vertical pole mount	Corner mount
	NOO.		200	
DS-1271ZJ-160	DS-2280ZJ-WA160	DS-2290ZJ-WA160	DS-1250ZJ-DM65	
Pendant Mount	Junction box	Junction box	Rain Shield	

<sup>\*</sup>Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y bracket models).

#### Headquarters

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