

iDS-2CD7546G2-XZHS(Y) 4MP DeepinView PTRZ Moto Varifocal Dome 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 4 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong back light due to 150 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 2MP@120fps and 4MP@60fps
- Built-in G-sensor for vibration detection
- Built-in power meter for historical power statistics
- Unique PTRZ capability for efficient installation and configuration



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 alarmif not.



Specification

Camera				
Image Sensor	1/1.8" Progressive Scan CMOS			
Max. Resolution	2688 × 1520			
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, 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)			
Angle Adjustment	Pan: 0° to 355°,tilt: 0° to 85°,rotate: 0° to 355°			
Lens	Fail. 0 to 333 ,titt. 0 to 63 ,totate. 0 to 333			
	Varifacellans materizedlans 2.9 to 12 mm and 9 to 22 mm entional			
Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm and 8 to 32 mm optional			
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 114.6° to 41.8°, vertical FOV 59.3° to 23.6°, diagonal FO 141.3° to 48.1° 8 to 32 mm, horizontal FOV 42.5° to 15.2°, vertical FOV 23.4° to 8.7°, diagonal FOV 49.7° to 17.3°			
Focus	Auto,Semi-auto,Manual			
Iris Type	P-iris			
Aperture	2.8 to 12 mm: F1.47 to F2.53, 8 to 32 mm: F1.7 to F1.73			
DORI				
DORI	Wide: 2.8mm to 12mm: D (Detect): 60 m, O (Observe): 23.8 m, R (Recognize): 12 m, I (Identify): 6 m 8mm to 32mm: D (Detect): 150.3 m, O (Observe): 59.7 m, R (Recognize): 30.1 m, I (Identify): 15 m Tele: 2.8mm to 12mm: D (Detect): 149 m, O (Observe): 59.1 m, R (Recognize): 29.8 m, I (Identify): 14.9 m 8mm to 32mm: D (Detect): 400 m, O (Observe): 158.7 m, R (Recognize): 80 m, I (Identify): 40 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: 40 m; 8 to 32 mm: Monitoring: 60 m			
Smart Supplement Light	Yes			
IR Wavelength	850 nm			
HEOP				
Open Resources	Memory: 150 MB, Smart RAM: 2200 MB, eMMC: 1288 MB			
Computing Power	2.5 TOPS			
Open Capability	HEOP 2.0 OpendevSDK			
Deep Learning Structure	Caffe,PyTorch,TensorFlow			
Programming Language	C,C++			



Al Open Platform			
•	Up to 4 models,		
Model Specification	Model type: detection model, classification model, mixed model (detection model and		
·	classification model)		
Video			
	Monitoring mode:		
	50 Hz: up to 50 fps (2688 × 1520, 1280 × 720), up to 100 fps (1920 × 1080)		
	60 Hz: up to 60 fps (2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080)		
Main Stream	*High frame rate is supported under monitoring mode only.		
	smart mode:		
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)		
	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)		
Code Characan	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480)		
Sub-Stream	60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)		
Third Character	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)		
Third Stream	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)		
Favorth Characa	50 Hz: 25 fps (704 × 576,640 × 480)		
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)		
Fifth Stream	50 Hz: 25 fps (704 × 576,640 × 480)		
riiui su eaiii	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 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		
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			
	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, SRTP, RTSP, RTCP, PPPoE,		
	NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, WebSocket,		
Protocols	WebSockets , MQTT/MQTTS , Support X.509 authentication , Support802.1xEAP-GTC		
	and MSCHAP V2; 802.1xEAP 1.2 supports a maximum 32-bit key.		
Simultaneous Live View	Up to 20 channels		



API	ISAPI,SDK,ISUP,OTAP,ONVIF (ProfileS, ProfileG, ProfileT, ProfileM)				
User/Host	Up to 32 users				
0361/11031	3 user levels: administrator, operator, and user				
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentical (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 LTLS 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256				
Smooth Streaming	Yes				
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.				
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				
Wide Dynamic Range (WDR)	150 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)				
Built-in Microphone	2 built-in microphones				
Built-in Speaker	1 built-in speaker				
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: 100Ω , interface type: non-equilibrium, mono sound				
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					
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception (network disconnected, IP address cor illegal login, HDD full, HDD error), glass break detection, scream detection, gunshot explosion sound detection, crying sound detection				



Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection Upload to FTP/NAS/memory card,notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning		
Linkage			
Deep Learning Function			
Multi-target-type Detection	Supports dynamic mosaic mask, Supports ShotN technology, Supports simultaneous detection and capture of human body, face, and vehicle, Gets 7 face features, Gets 13 human body features, Gets 2 vehicle features, Supports counting the number of line crossing targets by type, including human body, non-motor vehicle, motor vehicle,		
Face Capture	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°, 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 facelibraries. 30,000 faces for each library. 150,000 faces in total, Supports facelibrary encryption		
Activity Analysis	Support the detection of person smoking or making phone calls and trigger alarm. The detection attributes include head and shoulders, hands, faces, making phone calls, an smoking.		
People Counting	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, 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		
Queue Management	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 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 Metadata	Detects up to 30 human targets simultaneously	
	Supports up to 4 shield regions	
	Intrusion detection, line crossing detection, region entrance detection, region exiting	
Tricta da ta	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, alarminterval, first alarm	
	delay	
	Supports searching real-time number of people	
Regional People Counting	People density detection: supports scheduled uploading, number of people change	
negronari copie counting	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 method	
On/Off Duty Detection	Supports 2 detection modes: absence detection, on/off duty detection	
	Supports parameter settings: person on duty, absence duration	
	Detects hard hat and reflective clothing, triggering alarm when not worn.	
PPE Detection	Detects people not wearing hard hat. Supported hat colors: red, orange, yellow, blue,	
	white, and others.	
General		
	12 VDC ± 20%, 1.87 A, max. 22.4 W,two-core terminal block,	
Power	PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.53 A to 0.4 A, max. 22.4 W	
Material	Aluminum alloy body	
Dimension	Ø155 mm × 140.4 mm (Ø6.10" × 5.53")	
Package Dimension	206 mm × 206 mm × 230 mm (8.12" × 8.12" × 9.06")	
Weight	Approx. 1300 g (2.87 lb.)	
With Package Weight	Approx. 1980 g (4.37 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)	



	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,				
Language	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				
Davisa Managament	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6				
Device Management	output alarminterfaces				
Integrated Connector Panel	No				
Approval					
	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,				
EMC	RCM: AS/NZS CISPR 32: 2015,				
	IC: ICES-003: Issue 7,				
	KC: KN32: 2015, KN35: 2015				
	CB: IEC 62368-1:2014+A11,				
Safety	CE-LVD: EN 62368-1:2014/A11:2017,				
Safety	BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005,				
	LOA: IEC/EN 60950-1				
Environment	CE-RoHS: 2011/65/EU,				
	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)				
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	
Top-level protection	areas where professional anti-corrosion protection is a	
Top-rever protection	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	
Moderate protection	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	
No specific protection	areas where no specific anti-corrosion protection is needed.	

Available Model

iDS-2CD7546G2-XZHSY(8-32mm)



iDS-2CD7546G2-XZHSY(2.8-12mm)

iDS-2CD7546G2-XZHSY(8-32mm)/GREY

iDS-2CD7546G2-XZHSY(2.8-12mm)GREY

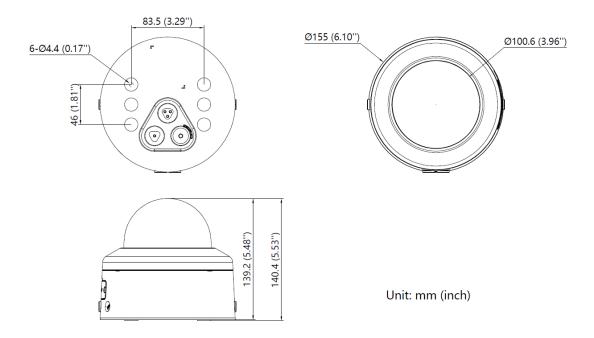
iDS-2CD7546G2-XZHS(8-32mm)/GREY

iDS-2CD7546G2-XZHS(2.8-12mm)/GREY

iDS-2CD7546G2-XZHS(8-32mm)

iDS-2CD7546G2-XZHS(2.8-12mm)

Dimension



Accessory

Optional

DS-1476ZJ-SUS	DS-1471ZJ-155	DS-1476ZJ-Y	DS-1475ZJ-SUS	DS-1471ZJ-155-Y
DS-1475ZJ-Y	DS-1473ZJ-155	DS-1473ZJ-155-Y		
nnn				

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



See Far, Go Further



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