

# 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,				
Day & Night	Blue glass module (less ghost phenomenon)				
Angle Adjustment	Pan: 0° to 355°,tilt: 0° to 85°,rotate: 0° to 355°				
Lens					
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 FOV 141.3° to 48.1°				
Total Length & TOV	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	2.8 to 12 mm:  D (Detect): 151.7 m, O (Observe): 60.2 m, R (Recognize): 30.3 m, I (Identify): 15.2 m  8 to 32 mm:  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				
Al Open Platform	GSC IIII.				
Al Open Hactorin	Up to 4 models,				
Model Specification	Model type: detection model, classification model, mixed model (detection model and classification model)				
Video					
Main Stream	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) *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)				
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)			
min a Sa cam	60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)			
Tour ar Sa carri	60 Hz: 30 fps (704 × 480,640 × 480)			
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)			
riitii Sti 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			
Additional Compression	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				
THE CONTRACTOR OF THE CONTRACT	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,			
11000013	SSL/TLS, ARP, WebSocket, WebSockets			
Simultaneous Live View	Up to 20 channels			
API	ISAPI,SDK,ISUP,OTAP,ONVIF (ProfileS, ProfileG, ProfileT, ProfileM)			
AFI	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			
Natwork Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR),			
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health			
Client	detection are supported.			
Client	iVMS-4200,Hik-Connect,Hik-Central			
M/sh Danne	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			
	by clientsoftware 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			
SNR	≥ 52 dB			
Privacy Mask	8 programmable polygon privacy masks			
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			
	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,			
Audio	input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,			
Audio	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 Speaker	1 built-in speaker			
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			
Basic Event	vehicle)), video tampering alarm, video quality diagnosis, exception (network			
Dasic 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			
Linkage	Upload to FTP/NAS/memory card,notify surveillance center, send email, trigger alarm			
Linkage	output,trigger recording,trigger capture,audible warning			
Deep Learning Function				
	Supports simultaneous detection and capture of human body, face, and vehicle,			
	Gets 7 facefeatures,			
	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,
	Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°,
Face Capture	Uploads face with background and closed-up face pictures,
race Capture	Supports best shot and quick shot for capture mode,
	Supports dynamic mosaic mask,
	Gets 7 face features
	Up to 10 facelibraries. 30,000 faces for each library. 150,000 faces in total,
Face Comparison	Supports facelibrary 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,
People Counting	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
	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
Heat Map	A graphic description of visits (by calculating amount of people or amount of dwell
	time) in a configured area.,
	Two report types are available, space heat map and time heat map line chart.
	Detects up to 30 human targets simultaneously
Hard Hat Detection	Supports up to 4 shield regions
	-
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting



	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
	People density detection: supports scheduled uploading, number of people change
Regional People 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
General	
Power	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,
Languago	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,flashlog
Heater	Yes
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6
Device Management	output alarminterfaces
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



Safety	CB: IEC 62368-1:2014+A11,  CE-LVD: EN 62368-1:2014/A11:2017,  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 enocific 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

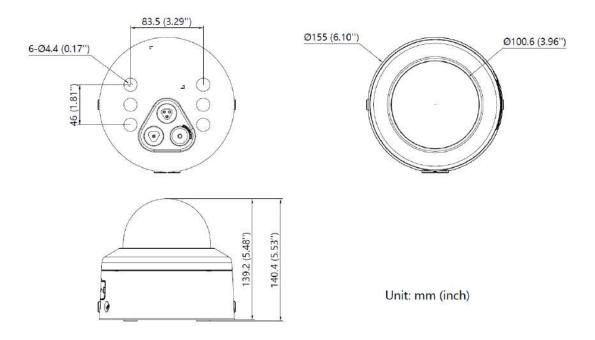
iDS-2CD7546G2-XZHSY(8-32mm)

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

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

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

#### Dimension



### Accessory

#### Optional

DS-1473ZJ-155	DS-1471ZJ-155	DS-1475ZJ-SUS	DS-1476ZJ-SUS	DS-1475ZJ-Y
		AAA		nno
DS-1476ZJ-Y	DS-1471ZJ-155-Y	DS-1473ZJ-155-Y		

<sup>\*</sup>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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