

# iDS-2CD7587G0-XZHS(Y)

**8 MP DarkfighterS DeepinView Varifocal Dome Camera** 







# - DeepinView

- High quality imaging with 8 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 120 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

#### **Face Recognition**

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.

#### **People Counting**

With the embedded deep learning algorithms, the camera integrates multiple intelligences. It counts persons and reports a face 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 alarm if not.



# Specification

Camera					
Image Sensor	1/1.8" Progressive Scan CMOS				
Max. Resolution	3840 × 2160				
Min. Illumination	Color: 0.0005 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				
5 0 Mills	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					
	2.8 to 12 mm, horizontal FOV 104.2° to 44.1°, vertical FOV 55.3° to 24.8°, diagonal FOV				
Focal Length & FOV	126.8° to 51.1°				
Focus	Auto, semi-auto, manual				
Iris Type	P-iris				
Aperture	F1.0 to F1.2				
DORI					
	Wide: D: 92 m, O: 36.5 m, R: 18.4 m, I: 9.2 m				
DORI	Tele: D: 204 m, O: 81 m, R: 40 m, I: 20.4 m				
Illuminator					
Supplement Light Range	2.8 to 12 mm: 30 m				
IR Wavelength	850 nm				
Supplement Light Type	Hybrid (IR and White Light)				
Smart Supplement Light	Yes				
Al Open Platform					
	Up to 4 models,				
Model Specification	Model type: detection model, classification model, mixed model (detection model and				
·	classification model)				
Video					
Main Channa	50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)				
Main Stream	60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)				
C. la China and	50 Hz: 25 fps (704 × 576, 640 × 480)				
Sub-Stream	60 Hz: 30 fps (704 × 480, 640 × 480)				
Third Characa	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)				
Farrath Changes	50 Hz: 25 fps (704 × 576, 640 × 480)				
Fourth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)				
Fifth Ctucous	50 Hz: 25 fps (704 × 576, 640 × 480)				
Fifth Stream	60 Hz: 30 fps (704 × 480, 640 × 480)				
	Main stream: H.265+/H.265/H.264+/H.264,				
Video Compression	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 16 Mbps				
H.264 Type	Baseline Profile, Main Profile, High Profile				
H.265 Type	Main Profile				



Bit Rate Control	CBR,VBR				
Target Cropping	Yes				
Scalable Video Coding (SVC)	H.264 and H.265 encoding				
Region of Interest (ROI)	4 fixed region(s) for each stream				
Audio	-				
Environment Noise Filtering	Yes				
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz				
<u> </u>	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 Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC				
Audio Type	Mono sound				
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, 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				
	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR),				
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health				
	detection are supported.				
Client	iVMS-4200, Hik-Connect				
Web Browser	Plug-in required live view: IE 10, IE11,				
WED DIOWSEI	Plug-in free live view: Chrome 57.0+, Firefox 52.0+				
Image					
Image Parameters Switch	Yes				
Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client				
mage settings	software or web browser				
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger, Video Trigger				
Wide Dynamic Range (WDR)	120 dB				
SNR	≥ 52 dB				
Privacy Mask	8 programmable polygon privacy masks, mask color or mosaic configurable				
Image Enhancement	BLC,HLC,3D DNR,Defog, 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)				
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				



	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp,				
Audio	input impedance: $4.7 \text{ K}\Omega$ , interface type: non-equilibrium,				
	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				
Alarm	1 input, 1 output (max. 24 VDC, 1 A)				
Built-in Speaker	Max. power consumption: 1.5 W, max. sound pressure level: 98 dB, speaker range: 1				
DO 405	m				
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, video tampering alarm, exception (network disconnected, IP				
Basic Event	address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality				
	diagnosis, vibration detection				
Cmart Front	Line crossing detection, intrusion detection, region entrance detection, region exiting				
Smart Event	detection, audio exception detection, scene change 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					
	Supports simultaneous detection and capture of human body, face and vehicle				
Multi-target-type Detection	Gets 7 face features, 13 human body features and 2 vehicle features				
	Detects up to 60 faces simultaneously				
Face Canture	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				
Face Comparison	Up to 10 face libraries. Up to 30,000 faces for each library. 150,000 faces in total.				
	Supports face library encryption				
	Supports crossline people counting,				
	Supports counting, displaying and exporting the people flow data of entering and				
	exiting. (The data is stored in the flash.),				
People Counting	The real-time people flow data is displayed on the screen. ,				
	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 picture.,				
	Supports real-time uploading and uploading by statistic cycle				
	Supports up to 8 detection regions, and independent arming schedule and linkage method				
	Supports 2 detection modes: regional people queuing-up, waiting time detection				
Queue Management	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				



	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.			
Hand Hat D. C. C.	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 detection, face capture, multi-target-type detection			
Regional People Counting	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, alarm interval, first alarm delay Supports searching real-time number of people People density detection: supports scheduled uploading, number of people change 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 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 A and less than threshold A and less than threshold B (threshold A, less than threshold A, greater than threshold A and less than threshold B (threshold A should be less than threshold B)			
On/Off Duty Detection	Supports up to 8 detection regions, and independent arming schedule and linkage method  Supports 2 detection modes: absence detection, on/off duty detection  Supports parameter settings: person on duty, absence duration			
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: 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 × 159.5 mm (Ø6.3" × 6.3")			
Package Dimension	251 × 215 × 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 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)			
Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Ita Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swe Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chin Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian			
General Function	Heartbeat, anti-banding, one-key reset, mirror, password protection, privacy mask, watermark, IP address filter, flash log, control timeout			
Heater	Yes			
Demist	Yes			



Approval				
EMC	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			
	50130-4: 2011 +A1: 2014,			
LIVIC	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 model: 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.

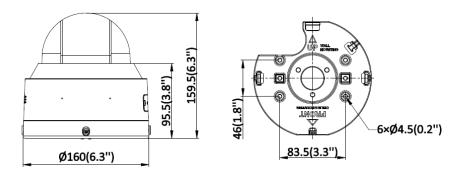
Level	Description		
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti- corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.		
Moderate protection	Hikvision products at this level are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

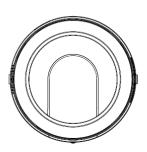
### Available Model

iDS-2CD7587G0-XZHS(2.8 to 12mm), iDS-2CD7587G0-XZHSY(2.8 to 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

Optional				
DS-1273ZJ-160 Wall Mount	DS-1476ZJ-SUS Corner Mount	DS-1475ZJ-SUS Vertical Pole Mount	DS-1273ZJ-160-AKS Wall Mount	DS-1271ZJ-160 Pendant Mount
		AAAA		
DS-1475ZJ-Y Vertical Pole Mount	DS-1476ZJ-Y Corner Mount			
ann ann				

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





Headquarters No.555 Qianmo Road, Binjiang District, Hangzhou 310051, China T +86-571-8807-5998 www.hikvision.com

Follow us on social media to get the latest product and solution information.





HikvisionHQ



HikvisionHQ



Hikvision Corporate Channel



hikvisionhq