

iDS-2CD7A45G0-IZ(H)S(Y) 4 MP 25 × IR Varifocal Bullet Network Camera















- DeepinView

- High quality imaging with 4 MP resolution
- 25 × optical zoom captures details in remote area
- Clear imaging against strong back light due to 140 dB WDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- Built-in heater on the front viewing window to ensure clear image under snowy weather
- Built-in gyroscope to ensure stable image output
- Water and dust resistant (IP67) and vandal proof (IK10)





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.



Specification

Shutter Time	- Specification						
Max. Resolution 2688 × 1520 Min. Illumination Color: 0.009 Lux @ (F1.6, AGC ON), B/W: 0.0018 Lux @ (F1.6, AGC ON), 0 Lux with III. Shutter Time 1 s to 1/30,000 s Day & Night IR cut filter Angle Adjustment Pan: 0* to 355*, tilt: 0* to 90*, rotate: 0* to 360* Lens 4.7 to 118 mm, horizontal FOV 58* to 2.8*, vertical FOV 32.3* to 1.6*, diagonal FOV to 3* Focus Auto, semi-auto, manual Iris Type P-iris Aperture 4.7 to 118 mm: F1.6 to F3.8 DORI Wide: D: 106 m, O: 42.1 m, R: 21.2 m, I: 10.6 m Tele: D: 2200 m, O: 873 m, R: 440 m, I: 220 m Illuminator Supplement Light Type IR Supplement Light Range Up to 200 m Smart Supplement Light Yes IR Wavelength 850 nm Video 50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720, 200 60 fps (2560 × 1440, 1920 × 1080, 1280 × 720, 200 Sub-Stream 50 Hz: 25 fps (704 × 576,	Camera						
Min. Illumination	Image Sensor	1/2.5" Progressive Scan CMOS					
Shutter Time	Max. Resolution	2688 × 1520					
Day & Night	Min. Illumination	Color: 0.009 Lux @ (F1.6, AGC ON), B/W: 0.0018 Lux @ (F1.6, AGC ON), 0 Lux with IR					
Angle Adjustment Lens Focal Length & FOV 4.7 to 118 mm, horizontal FOV 58° to 2.8°, vertical FOV 32.3° to 1.6°, diagonal FOV to 3° Focus Auto, semi-auto, manual Iris Type P-iris Aperture 4.7 to 118 mm: F1.6 to F3.8 DORI Wide: D: 106 m, O: 42.1 m, R: 21.2 m, I: 10.6 m Tele: D: 2200 m, O: 873 m, R: 440 m, I: 220 m Illuminator Supplement Light Type IR Supplement Light Range Up to 200 m Smart Supplement Light Yes IR Wavelength Video 50 Hz: 25 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 50 Hz: 25 fps (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 (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) 50 Hz: 25 fps (704 × 576, 640 × 480)	Shutter Time	1 s to 1/30,000 s					
Lens	Day & Night	IR cut filter					
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That Stream	Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480)					
60 Hz: 30 fps (704 × 480, 640 × 480)		60 Hz: 30 fps (704 × 480, 640 × 480)					
Main stream: H.265+/H.265/H.264+/H.264		Main stream: H.265+/H.265/H.264+/H.264					
Video Compression Sub-stream/Fourth stream: H.265/H.264/MJPEG	Video Compression						
Third stream: H.265/H.264		Third stream: H.265/H.264					
Video Bit Rate 32 Kbps to 8 Mbps	Video Bit Rate	32 Kbps to 8 Mbps					
H.264 Type Baseline Profile/Main Profile/High Profile	H.264 Type	Baseline Profile/Main Profile/High Profile					
H.265 Type Main Profile	H.265 Type	Main Profile					
Bit Rate Control CBR/VBR	Bit Rate Control	Rate Control CBR/VBR					
Scalable Video Coding (SVC) H.264 and H.265 encoding	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	Supports Patrol and Auto-tracking settings			
Audio				
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC/MP3			
Audio Type	Mono sound			
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz			
Environment Noise Filtering	Yes			
	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/16 to 64			
Audio Bit Rate	Kbps (AAC)/8 to 320 Kbps (MP3)			
Network				
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP,			
FIOLOCOIS	PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS			
Simultaneous Live View	Up to 20 channels			
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP			
User/Host	Up to 32 users			
0361/11031	3 user levels: administrator, operator, and user			
	Password protection, complicated password, HTTPS encryption, 802.1X authentication			
Security	(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 Log,			
	TLS 1.2			
	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, Hik-Central			
	Plug-in required live view: IE10+			
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 12+			
	Local service: Chrome 57.0+, Firefox 52.0+			
Image				
Image Parameters Switch	Yes			
Image Settings	Saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by			
85	client software or web browser			
Day/Night Switch	Day, Night, Auto, Schedule			
Wide Dynamic Range (WDR)	140 dB			
Image Enhancement	BLC, HLC, Defog, 3D DNR			
SNR	≥ 52 dB			
Privacy Mask	8 programmable polygon privacy masks, mask color or mosaic configurable			
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format			
Image Stabilization	EIS (Built-in gyroscope to improve EIS performance)			
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 256 GB			



	1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 vpp, input impedance:					
	4.7 KΩ, interface type: non-equilibrium;					
Audio	1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 vpp, output					
	impedance: 100 Ω , interface type: non-equilibrium					
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1 A)					
RS-485	With -Y: 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)					
Reset Key	Yes					
Power Output	With -Y: 12 VDC, max. 100 mA					
Event						
	Motion detection (support alarm triggering by specified target types (human and					
Pacie Event	vehicle)), video tampering alarm, exception (network disconnected, IP address conflict,					
Basic Event	illegal login, abnormal reboot, HDD full, HDD error), video quality diagnosis, vibration					
	detection					
	Line crossing detection, intrusion detection, region entrance, region exiting (support					
Smart Event	alarm triggering by specified target types (human and vehicle))					
	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					
Deep Learning Function						
Multi-target-type Detection	Detects up to 60 taregets simultaneously					
	Supports simultaneous detection and capture of human body, face and vehicle					
	Gets 7 face features, 13 human body features and 2 vehicle features					
Face Capture	1. Detects up to 60 faces simultaneously					
	2. Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°					
	3. 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					
General						
Power	-IZHSY:					
	12 VDC ± 20%, 1.73 A, max. 20.7 W, three-core terminal block					
	24 VAC ± 20%, 1.31 A, max. 19.9 W, three-core terminal block					
	PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.46 A to 0.35 A, max. 19.5 W					
	-IZHS:					
	12 VDC ± 20%, 1.62 A, max. 19.4 W, two-core terminal block					
	24 VAC ± 20%, 1.21 A, max. 18.7 W, two-core terminal block					
	PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.43 A to 0.32 A, max. 18.2 W					
	-IZSY:					
	12 VDC ± 20%, 1.13 A, max. 13.48 W, three-core terminal block 24 VAC ± 20%, 0.89 A, max. 12.14 W, three-core terminal block					
	PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.22 A to 0.29 A, max. 12.29 W					
	-IZS:					
	12 VDC ± 20%, 1.02 A, max. 12.22 W, two-core terminal block					
	24 VAC ± 20%, 0.8 A, max. 11.49 W, two-core terminal block					
	PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.20 A to 0.26 A, max. 10.50 W					
Material	Aluminum alloy body					



	With -Y: Ø140 mm × 378.4 mm (Ø5.5" × 14.9")				
Dimension	Without -Y: Ø144.1 mm × 375.2 mm (Ø5.7" × 14.8")				
Package Dimension	425 mm × 190 mm × 180 mm (16.7" × 7.5" × 7.1")				
r dekage Dimension	With -Y: Approx. 2160 g (4.8 lb.)				
Weight	Without -Y: Approx. 2130 g (4.7 lb.)				
	With -Y: Approx. 3310 g (7.3 lb.)				
With Package Weight	Without -Y: Approx. 3200 g (7.1 lb.)				
	Without -H: -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)				
Storage Conditions	With H: -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
Startup and Operating	With the 40 C to 50 C (40 T to 140 T). Hammary 55% of 1635 (non-condensing)				
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,				
Language	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,				
Lunguage	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,				
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian				
General Function	5 streams, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel				
General Function	counter				
Heater	Yes				
De-icing	Yes				
Approval					
	FCC (47 CFR Part 15, Subpart B);				
EMC	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EEN 61000-3-3:2013+A1:2019, EN				
	50130-4: 2011+A1: 2014);				
	RCM (AS/NZS CISPR 32: 2015);				
	IC (ICES-003: Issue 7);				
	KC (KN 32: 2015, KN 35: 2015)				
Safety	UL (UL 62368-1);				
	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)				
	CE-RoHS (2011/65/EU);				
Environment	WEEE (2012/19/EU);				
	Reach (Regulation (EC) No 1907/2006)				
Protection	IK10 (IEC 62262:2002), IP67 (IEC 60529-2013)				
Anti-Corrosion Protection	With -Y: NEMA 4X(NEMA 250-2018)				
Other	PVC FREE				

Available Model

iDS-2CD7A45G0-IZHSY (4.7 to 118 mm) iDS-2CD7A45G0-IZHS (4.7 to 118 mm) iDS-2CD7A45G0-IZSY (4.7 to 118 mm) iDS-2CD7A45G0-IZSY (4.7 to 118 mm)



Typical Application

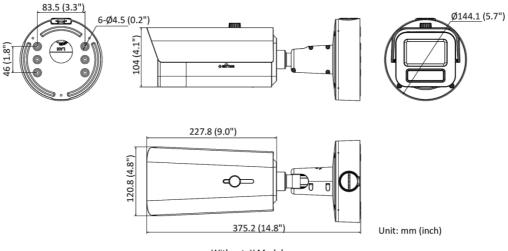
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

-Y model: This model has MODERATE PROTECTION.

Without -Y model: This model has NO SPECIFIC PROTECTION.

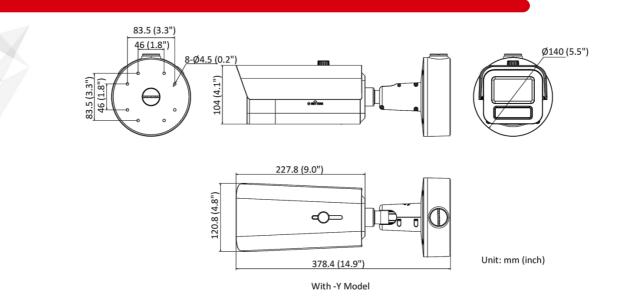
Level	Description			
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion			
	protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.			
Moderate protection	Hikvision products at this level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

Dimension



Without -Y Model





- Accessory
- Optional

DS-1275ZJ-S-SUS	DS-1476ZJ-SUS	DS-1476ZJ-Y	DS-1475ZJ-Y	DS-1475ZJ-SUS
Vertical Pole Mount	Corner Mount	Corner Mount	Vertical Pole Mount	Vertical Pole Mount





Distributed by

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