

# DS-2CD3D46G2T-IZHSU(Y)

4 MP DarkFighter Varifocal Dome Network Camera



















Empowered by deep learning algorithms, Hikvision AcuSense technology brings human or vehicle target classification alarms to front- and back-end devices. The system can greatly reduce false alarms generated by targets other than humans or vehicles, vastly improving alarm efficiency and effectiveness.

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.

- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 1.5 Tops computing power, 60 MB system memory, 400 MB smart RAM, and 2 GB eMMC storage for sharing resources
- High quality imaging with 4 MP resolution
- Excellent low-light performance with DarkFighter technology
- Focus on human and vehicle targets classification based on deep learning
- Motorized varifocal lens for easy installation
- Clear imaging against strong backlight due to 140 dB WDR technology
- Efficient H.265+ compression technology
- Audio and alarm interface available
- Water and dust resistant (IP67) and vandal-resistant (IK10)
- -Y: Anti-Corrosion NEMA 4X: NEMA 250-2014



# Specification

Camera						
	4/4 0   0					
Image Sensor  Max. Resolution	1/1.8" Progressive Scan CMOS					
	2688 × 1520					
Min. Illumination	Color: 0.0014 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR					
Shutter Time	1/3 s to 1/100,000 s					
Day & Night	IR cut filter					
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°					
Lens						
	2.8 to 12 mm, horizontal FOV 115° to 42°, vertical FOV 59° to 24°, diagonal FOV 141° to					
Focal Length & FOV	48°					
	8 to 32 mm, horizontal FOV 42° to 15°, vertical FOV 23° to 9°, diagonal FOV 49° to 17°					
Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm and 8 to 32 mm optional					
Lens Mount	Integrated					
Iris Type	P-iris					
Focus	Auto, Semi-auto, Manual					
Aperture	2.8 to 12 mm: F1.4; 8 to 32 mm: F1.7					
Double of Field	2.8 to 12 mm: 1.5 m to ∞					
Depth of Field	8 to 32 mm: 7.5 m to ∞					
DORI						
202	2.8 to 12 mm: D: 60 to 149 m, O: 23.8 to 59.1 m, R: 12 to 29.8 m, I: 6 to 14.9 m					
DORI	8 to 32 mm: D: 150.3 to 400 m, O: 59.7 to 158.7 m, R: 30.1 to 80 m, I: 15 to 40 m					
Illuminator						
Supplement Light Range	2.8 to 12 mm: up to 40 m; 8 to 32 mm: up to 50 m					
Supplement Light Type	IR					
Smart Supplement Light	Yes					
IR Wavelength	850 nm					
HEOP						
	Memory: 60 MB,					
Open Resources	Smart RAM: 400 MB,					
·	eMMC: 2 GB					
Computing Power	1.5 TOPS					
Open Capability	HEOP 2.0 OpendevSDK					
Deep Learning Structure	Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX					
Programming Language	C, C++					
Video						
	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)					
Main Stream	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)					
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)					
	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)					
	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)					
Third Stream	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)					
	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)					
Fourth Stream	60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)					
	00 112. 10 1p3 (1200 ^ 720, 040 × 400, 040 × 300)					



	Main stream: H.265/H.264/H.264+/H.265+,					
Video Compression	Sub-stream: H.265/H.264/MJPEG,					
	Third stream: H.265/H.264,					
	Fourth 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)	5 fixed regions for main stream and sub-stream					
Target Cropping	Yes					
e-PTZ	Support Preset and Auto Tracking settings					
Audio						
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC					
Audio Type	Mono sound					
. It as a	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/44.1 kHz/48 kHz					
Environment Noise Filtering	Yes					
Network						
	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP,					
Protocols	IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, ARP, SNMP,					
	WebSocket, WebSockets, SRTP					
Simultaneous Live View	Up to 6 channels					
API	ONVIF (Profile S, Profile G, Profile T), 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					
	1.1/1.2/1.3, host authentication (MAC address)					
	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: IE 10, IE 11,					
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+,					
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+					
Image						
Image Parameters Switch	Yes					
	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance,					
Image Settings	adjustable by client software or web browser					
Day/Night Switch	Day, Night, Auto, Schedule					
Wide Dynamic Range (WDR)	140 dB					
Image Enhancement	BLC, HLC, 3D DNR, Defog					
oc Elinanocinient	DEC, TIEC, 3D DINN, DETOS					



SNR	≥ 52 dB				
Privacy Mask	4 programmable polygon privacy masks				
Interface					
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port				
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB				
Audio	1 input (line in), max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium 1 output (line out), max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium				
Built-in Microphone	Yes				
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)				
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				
Smart Event	scene change detection, audio exception detection, defocus detection, unattended baggage detection, object removal detection				
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarmoutput, trigger recording, trigger capture, audible warning				
Deep Learning Function					
Face Capture	Yes				
People Counting	Yes				
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting  Support alarm triggered by specified target types (human and vehicle)				
General					
Power	12 VDC ± 25%, 0.9 A, max. 10.8 W, two-core terminal block, 24 VAC ± 20%, 0.75 A, max. 10.8 W, PoE: IEEE 802.3af, Class 3, max. 12.9 W				
Material	Metal				
Dimension	Ø162 mm × 141.8 mm (Ø6.4" × 5.6")				
Package Dimension	251 mm × 215 mm × 189 mm (9.9" × 8.5" × 7.4")				
Weight	Approx. 1420 g (3.1 lb.)				
With Package Weight	Approx. 2058 g (4.5 lb.)				
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
Startup and Operating Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
General Function	Heartbeat, anti-banding, mirror, flash log, password reset via email, pixel counter				
33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, Go Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Da Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Tradit Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukr					
Heater	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,				
	RCM: AS/NZS CISPR 32: 2015,				
	IC: ICES-003: Issue 7,				
	KC: KN32: 2015, KN35: 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				
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)				

### 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: MODERATE PROTECTION Without -Y model: 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

DS-2CD3D46G2T-IZHSUY(8-32mm)(H)

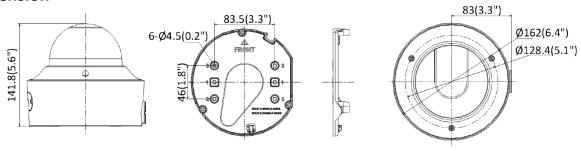
DS-2CD3D46G2T-IZHSUY(2.8-12mm)(H)

DS-2CD3D46G2T-IZHSU(8-32mm)(H)

DS-2CD3D46G2T-IZHSU(2.8-12mm)(H)



#### Dimension



Unit: mm (inch)

### Accessory

### Optional

DS-1475ZJ-SUS Vertical Pole Mount	DS-1471ZJ-155 Pendant Mount	DS-1473ZJ-155-Y Wall Mount	DS-1473ZJ-155 Wall Mount	DS-1471ZJ-155-Y Pendant Mount
AAAA	I			
DS-1476ZJ-SUS Corner Mount	DS-1475ZJ-Y Vertical Pole Mount	DS-1476ZJ-Y Corner Mount		
	ann E			

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

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