

DS-2CD3746G3T-IZSU(B) 4 MP AcuSense Varifocal Dome Network Camera

AcuSense 3.0



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.

- HIK AI-ISP for excellent noise reduction effect
- 130 dB WDR, support Auto mode, clear imaging against strong back light
- AcuSense: Focus on person and vehicle classification based on deep learning
- Motorized varifocal lens for easy installation and monitoring
- Built-in arrayed dual-microphone for real-time high quality audio security
- Water and dust resistant (IP67) and vandal resistant (IK10)
- -Y: Anti-corrosion design, providing reliability and longevity compared to standard (NEMA 4X)

▪ Specification

Camera		
Image Sensor	5	1/3" Progressive Scan CMOS
Max. Resolution	1	2688 × 1520
Min. Illumination	4	Color: 0.001 Lux @ (F1.2, AGC ON), B/W: 0 Lux with IR
Shutter Time		1 s to 1/100,000 s
Day & Night	3	IR cut filter
Angle Adjustment		Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Lens		
Lens Type	6	Varifocal lens, motorized lens, 2.7 to 13.5 mm and 7 to 35 mm optional
Focal Length & FOV		2.7 to 13.5 mm, horizontal FOV 105.2° to 34.5°, vertical FOV 56.0° to 19.3°, diagonal FOV 125.6° to 39.4° 7 to 35 mm, horizontal FOV 28.6° to 10.5°, vertical FOV 16.0° to 6.0°, diagonal FOV 33.1° to 12.1°
Lens Mount		2.7 to 13.5 mm: Ø14 7 to 35 mm: Integrated
Iris Type		Auto-iris
Aperture		2.7 to 13.5 mm: Max.F1.2 7 to 35 mm: Max.F1.4
Depth of Field		1 m to ∞
DORI		
DORI		2.7 to 13.5 mm: Wide: D: 63.4 m, O: 25.1m, R: 12.6 m, I: 6.3 m Tele: D: 180.8 m, O: 71.7 m, R: 36.2 m, I: 18.1 m 7 to 35 mm: Wide: D: 218.2 m, O: 86.6 m, R: 43.6 m, I: 21.8 m Tele: D: 580.6 m, O: 230.4 m, R: 116.1 m, I: 58.1 m
Illuminator		
Supplement Light Type		IR
Supplement Light Range		2.7-13.5mm: 40m; 7-35mm: 60m
Smart Supplement Light		Yes
IR Wavelength		850 nm
HEOP		
Open Resources		NA
Computing Power		NA
Open Capability		NA
Deep Learning Structure		NA
Programming Language		NA
Video		
Main Stream	2	50 Hz: 25 fps (2688 × 1520) 60 Hz: 30 fps (2688 × 1520) 50 Hz: 50 fps (1920 × 1080, 1280 × 720) 60 Hz: 60 fps (1920 × 1080, 1280 × 720)

10

Sub-Stream	50 Hz: 25 fps (1280 × 720, 768 × 432, 640 × 360) 60 Hz: 30 fps (1280 × 720, 768 × 432, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
Fourth Stream	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)
Video Compression	12 Main stream: H.265/H.264/H.264+/H.265+, 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
e-PTZ	Support Patrol and Auto Tracking settings
AI Encoding	Yes
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 (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/48 kHz
Network	
Protocols	13,15 TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, IEEE 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP, SFTP
Simultaneous Live View	Up to 6 channels 11
API	17 ISAPI, SDK, ISUP, ONVIF (Profile S, Profile T, Profile G, Profile M)
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (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 1.1/1.2/1.3, host authentication (MAC address)
Network Storage	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR)
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in free live view: Chrome 91+, Firefox 88+, Edge 91+, Safari 13+ Local service: Chrome 91+, Firefox 88+, Edge 91+
Image	
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser

9

Day/Night Switch		Day,Night,Auto,Schedule
Image Enhancement		BLC,HLC,3D DNR,Distortion Correction,Defog
SNR		≥ 52 dB
Wide Dynamic Range (WDR)		130 dB
Image Stabilization		EIS
Privacy Mask		8 programmable polygon privacy masks
Interface		
Ethernet Interface	14.1	1 RJ45 10 M/100 M Base-T self-adaptive Ethernet port
On-Board Storage	16	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Built-in Speaker		NA
Audio		Built-in Microphone: Arrayed dual-microphone, 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium, 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
Alarm		2 input, 2 output (max. 24 VDC/24 VAC, 1 A)
Reset Key		Yes
Power Output		12 VDC, max. 100 mA
Indicator		NA
Event		
Basic Event	7	Motion detection (support alarm triggering by specified target types (human and vehicle and animal)),video tampering alarm,exception
Smart Event		Scene change detection, audio exception detection, defocus detection
Linkage		Upload to FTP/NAS/memory card,notify surveillance center,trigger recording,trigger capture,send email,audible warning
Deep Learning Function		
Face Capture		Yes
People Counting		Yes
Perimeter Protection	8.1, 8.2,8.3	Line crossing, intrusion, region entrance , region exiting Support alarm triggering by specified target types (human and vehicle and animal),people gathering, fast moving, parking, unattended baggage, object removal , combined event
General		
Power	14.2	12 VDC ± 25%, 1.35 A, max. 16.2 W,Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3at , Class 4, max. 18 W
Material		Metal
Dimension		Ø141 mm × 112 mm (Ø5.6" × 4.4")
Package Dimension		206 mm × 206 mm × 230 mm (8.1" × 8.1" × 9.1")
Weight		Approx. 850 g (1.9 lb.)
With Package Weight		Approx. 1440 g (3.2 lb.)
Storage Conditions		-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions		-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
General Function		Heartbeat,mirror,flash log,password reset via email,pixel counter,anti-banding

Language	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, 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
Approval	
EMC	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
Safety	18 CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017
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	NEMA 4X (NEMA 250-2018)

▪ Typical Application

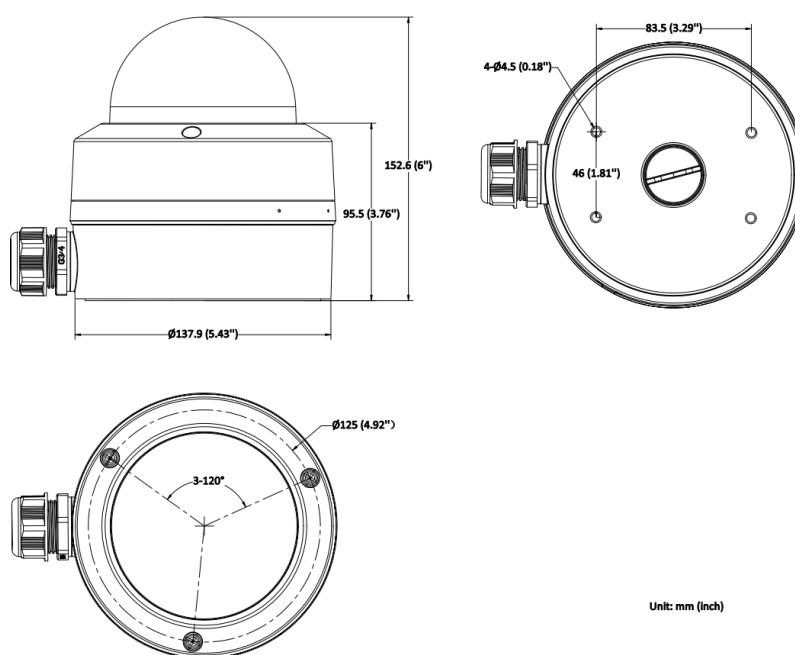
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

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This model has MODERATE 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



▪ **Accessory**

▪ **Included**

DS-1280ZJ-DM45

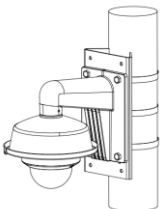
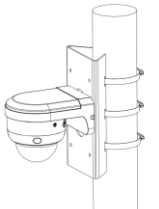
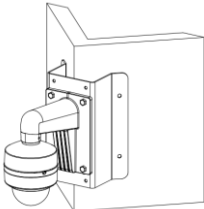
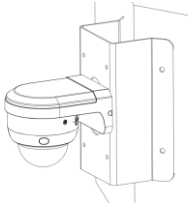
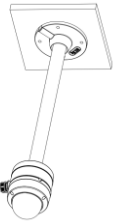
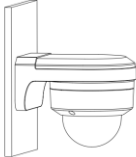
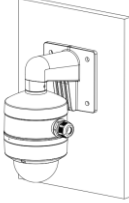
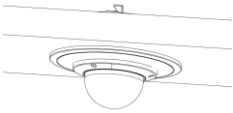


▪ **Optional**

DS-1275ZJ-SUS	DS-1475ZJ-SUS	DS-1276ZJ-SUS	DS-1476ZJ-SUS	DS-1271ZJ-140-DM 45
DS-220AZJ-145-WA	DS-1273ZJ-140-DM 45	DS-1275ZJ-S-SUS	DS-4220ZJ-WC	



■ Installation Methods

Junction Box DS-1280ZJ-DM45	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1253ZJ-L+DS-1273ZJ-140-DM45	Vertical Pole Mounting DS-1475ZJ-SUS+DS-220AZJ-145-WA	Vertical Pole Mounting DS-1275ZJ-S-SUS+DS-220AZJ-145-WA	Corner Mounting DS-1276ZJ-SUS+DS-1273ZJ-140-DM45
				
Corner Mounting DS-1476ZJ-SUS+DS-220AZJ-145-WA	Pendant Mounting DS-1271ZJ-140-DM45+DS-1280ZJ-DM45	Wall Mounting DS-220AZJ-145-WA	Wall Mounting DS-1273ZJ-140-DM45+DS-1280ZJ-DM45	In-Ceiling Mounting DS-4220ZJ-WC
				

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