DS-2CD6984G1-IHSUY/NFC
32MP 180° PanoVu Network Camera



- 180° splicing image: the image presented includes the full panoramic view covered by the camera
- High resolution 32 MP: capturing clear images, and allowing for more details to be displayed on a video wall
- Remote motorized Pan and Tilt for easy angle adjustment
- Built-in heater, ultra-low temperature start up to -40 °C (-40 °F)
- Water and dust resistant (IP67) and vandal proof (IK10)
- DarkFighter technology captures high quality color images even in dimly light environments

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	8160 × 3616
Min. Illumination	Color: 0.002 Lux @ (F1.0, AGC ON),B/W: 0.0005 Lux @ (F1.0, AGC ON)
Shutter Time	1/25 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 340°,tilt: 0° to 90°
Lens	
Lens Type	Fixed focal lens, 2.8 mm, four lenses
Focal Length & FOV	2.8 mm, Single lens image: horizontal FOV 108.8°, vertical FOV 56.4°, diagonal FOV 134.3°, Panorama Image: horizontal FOV 185°, vertical FOV 100°
Lens Mount	M16
Aperture	F1.0
DORI	
DORI	2.8 mm: D: 89.2 m, O: 35.4 m, R: 17.8 m, I: 8.9 m
Illuminator	
Supplement Light Type	IR,four IR LEDs
Supplement Light Range	Up to 20 m
IR Wavelength	850 nm
Video	
Main Stream	Panorama mode: 50 Hz: 25 fps (8160 × 3616) 60 Hz: 30 fps (8160 × 3616) Original mode: 50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	Panorama mode: 50 Hz: 25 fps (1920 × 1080) 60 Hz: 30 fps (1920 × 1080) Original mode: 50 Hz: 25 fps (1280×720) 60 Hz: 30 fps (1280×720)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 64 Mbps
H.264 Type	Baseline Profile,Main Profile,High Profile
H.265 Type	Main Profile
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	4 fixed regions for each stream
Audio	
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)/PCM/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	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour
Simultaneous Live View	Up to 4 channels
API	ONVIF (Profile S, Profile G),ISAPI,SDK,ISUP
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 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR)
Client	iVMS-4200,Hik-Connect
Web Browser	Plug-in required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 13+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
Image	
Image Settings	Rotate mode,saturation,brightness,contrast,sharpness,gain,white balance,AGC,adjustable by client software or web browser
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger
Wide Dynamic Range (WDR)	Digital WDR
SNR	≥ 52 dB
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog
Privacy Mask	8 programmable polygon privacy masks
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.
Interface	
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 1024 GB
Built-in Microphone	2 built-in microphones
Audio	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 inputs, 2 outputs (max. 12 VDC, 1 A)
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset Key	Yes
Power Output	12 VDC, max. 150 mA
Fiber Optical	1 FC fiber optical interface, SFP module, single mode, 20 km transmission distance, 1310 nm (TX) and 1550 nm (RX), 1250 Mbps transmission rate
Event	
Basic Event	Motion detection,video tampering alarm,exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error, abnormal restart),alarm input and output,video quality diagnosis,audio exception detection,vibration detection

Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, loitering detection, people gathering detection, fast moving detection, parking detection, unattended baggage detection, object removal detection, , only panorama mode supports
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording,trigger capture,audible warning
Deep Learning Function	
People Density	only panorama mode supports
Perimeter Protection	L Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) Support combined event alarm triggering
General	
Power	12 VDC ± 20%, 2.2 A, max. 26.4 W, 24 VAC ± 20%, 1.5 A, max. 24 W,three-core terminal block, PoE: IEEE 802.3at, Class 4, max. 25 W
Material	Aluminum alloy & plastic
Dimension	Ø214.6 mm × 213 mm (Ø8.45" × 8.39")
Package Dimension	336 mm × 261 mm × 293 mm (13.2" × 10.3" × 11.5")
Weight	Approx. 4.2 kg (9.25 lb.)
With Package Weight	Approx. 6.2 kg (13.67 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)
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
General Function	Heartbeat,mirror,password protection,flash log,password reset via email,pixel counter,one-key reset,anti-banding
Heater	Yes
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, 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	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.

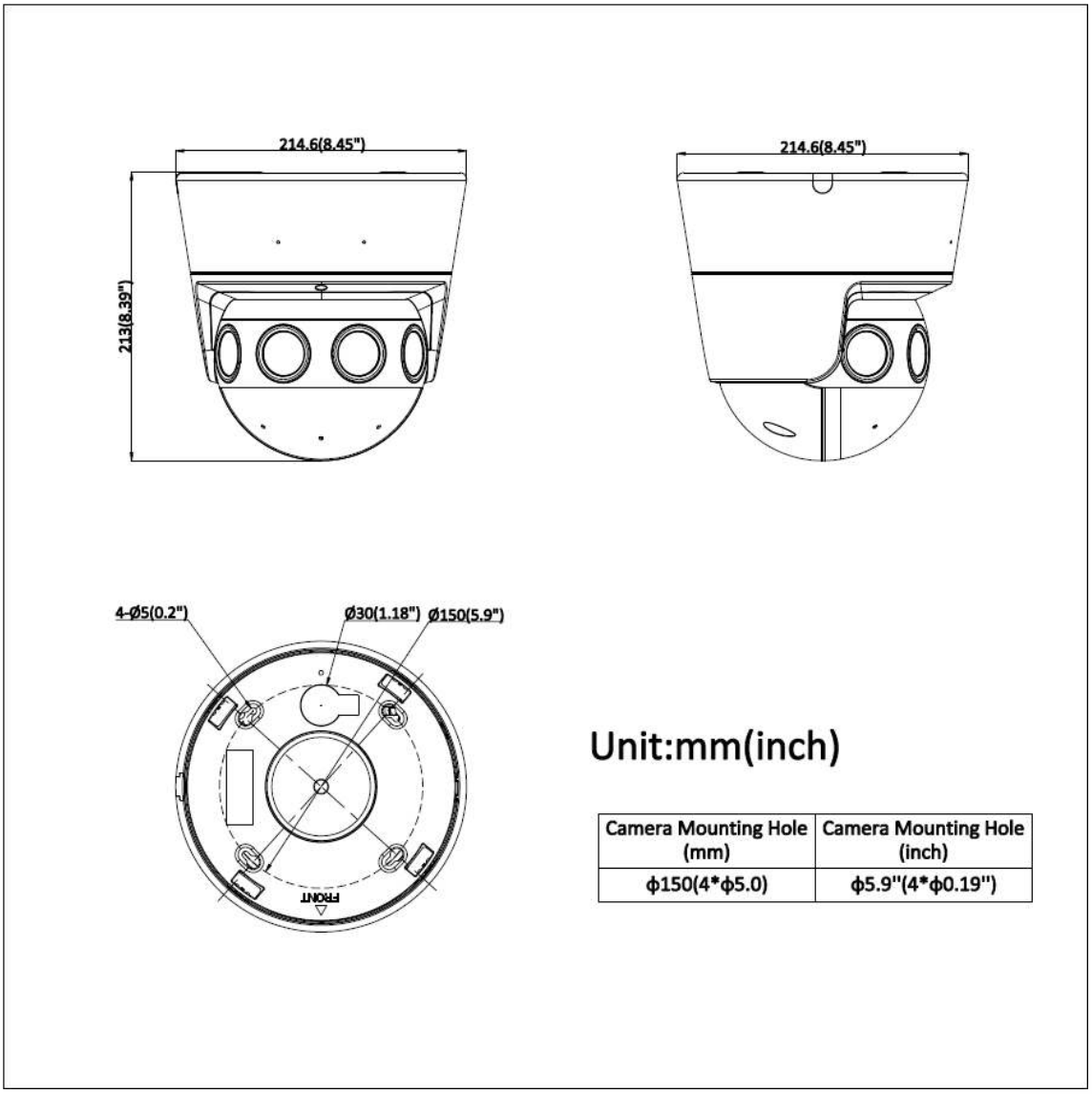
This model has MODERATE PROTECTION.

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.

▪ Available Model

DS-2CD6984G1-IHSUY/NFC(2.8mm)

▪ Dimension



▪ Accessory

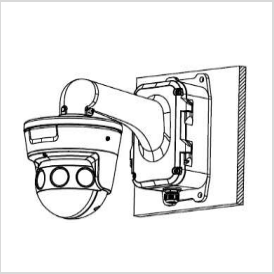
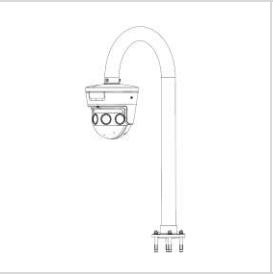
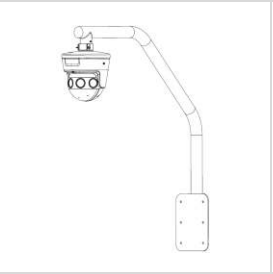
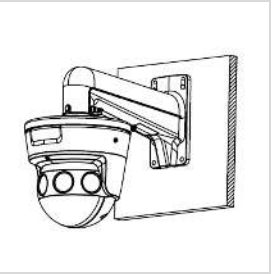
▪ Optional

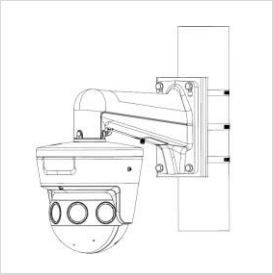
DS-1602ZJ-Corner	DS-1604ZJ-box	DS-1619ZJ	DS-1602ZJ	DS-1661ZJ
				
DS-1602ZJ-Pole	**DS-1660ZJ**			





▪ Installation Methods

Corner Mounting DS-1602ZJ-Corner	Junction Box DS-1604ZJ-box	Gooseneck Mounting DS-1619ZJ	Gooseneck Mounting DS-1660ZJ	Wall Mounting DS-1602ZJ
				

Pendant Mounting DS-1661ZJ	Vertical Pole Mounting DS-1602ZJ-Pole
	

See Far, Go Further

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