DS-2CD6045G0/SC-IZRS
4 MP Self-Cleaning Network Camera

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.

- High quality imaging with 4 MP resolution
- Clear imaging against strong back light due to 120 dB WDR technology
- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 8 Tops computing power, 150 MB system memory, 1800 MB smart RAM, and 3200 MB eMMC storage for sharing resources
- Motorized varifocal lens for easy installation and monitoring
- Supports low latency, with camera end-to-end decoding latency as low as 100 ms
- Supports wiper
- Supports defogging, preventing internal fogging of the device
- Supports self-supplied air, maintaining the cleanliness of the viewing window with a positive pressure air curtain (camera installation tilt not exceeding 45°)
- Water and dust resistant (IP68)

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON),B/W: 0.0001 Lux @ (F1.2, AGC ON),B/W: 0 Lux with IR
Shutter Time	1 s to 1/100,000 s
Lens	
Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm and 8 to 32 mm optional
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 99.6 to 39.7°, vertical FOV 52.3° to 22.4°, diagonal FOV 119.9° to 45.7° 8 to 32 mm, horizontal FOV 40.3 to 14.5°, vertical FOV 22.1° to 8.2°, diagonal FOV 46.9° to 16.5°
Focus	Auto,Semi-auto,Manual
Iris Type	DC iris
Aperture	2.8 to 12 mm: max F1.4, 8 to 32 mm: max F1.7
Depth of Field	1 m to ∞
DORI	
DORI	2.8 to 12 mm: Wide: D: 61.5 m, O: 24.4 m, R: 12.3 m, I: 6.2 m Tele: D: 151.7 m, O: 60.2 m, R: 30.3 m, I: 15.1 m 8 to 32 mm: Wide: D: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15.0 m Tele: D: 400.0 m, O: 158.7 m, R: 80.0 m, I: 40.0 m
Illuminator	
Supplement Light Type	IR
Supplement Light Range	2.8 to 12 mm: 30 m, 8 to 32 mm: 50 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
HEOP	
Open Resources	Memory: 150 MB, Smart RAM: 1800 MB,eMMC: 3200 MB
Computing Power	8 TOPS
Open Capability	HEOP 2.0 OpendevSDK
Deep Learning Structure	Caffe,PyTorch,TensorFlow,PaddlePaddle
Programming Language	C,C++
Video	
Main Stream	50 Hz: 50 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576,640 × 480) 60 Hz: 30 fps (704 ×480,640 × 480)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) *Third stream is supported under certain settings.

Video Compression	Main stream: Smart265/H.265/Smart264/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264
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
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	5 fixed regions for main stream
Target Cropping	Yes
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)/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	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets
Simultaneous Live View	Up to 20 channels
API	ONVIF (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP
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), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Client	iVMS-4200,Hik-Connect,Hik-Central
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+, Plug-in required live view: IE 10, IE 11
Image	
Image Parameters Switch	Yes
Image Settings	Rotate mode,saturation,brightness,contrast,sharpness,gain,white balance,adjustable by client software or web browser
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger
Wide Dynamic Range (WDR)	120 dB
Image Enhancement	BLC,HLC,3D DNR,Defog,Distortion Correction
SNR	≥ 50 dB
Privacy Mask	8 programmable polygon privacy masks

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 1 TB, *You are recommended to purchase memory card together with the product if needed. After ordering, the memory card will be installed to product during manufacturing. The memory card needs to be installed before leaving the factory.
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	1 input, 1 output (max. 24 VDC, 1 A/110 VAC, 500 mA)
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset Key	Yes
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Smart Event	Unattended baggage detection,object removal detection,scene change detection,audio exception detection,defocus detection
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger recording,trigger capture,trigger alarm output
Deep Learning Function	
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
General	
Power	36 VDC ± 20%, 1.8 A, max. 65 W,two-core terminal block,reverse polarity protection
Material	Body: SMC+ 30% GF, Bracket: PA66+ 15% Glass Fiber, Junction Box: Anodized ADC12
Dimension	173 mm × 145 mm × 281 mm (6.81" × 5.71" × 11.06")
Package Dimension	456 mm × 206 mm × 233 mm (17.95" × 8.11" × 9.17")
Weight	Approx. 2755 g (6.06 lb.)
With Package Weight	Approx. 3718 g (8.18 lb.)
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	2.8 to 12 mm: -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing) 8 to 32 mm: -30 °C to 60 °C (-22 °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,flash log,password reset via email,pixel counter,password protection,anti-banding
Self-Supplied Air System	Air intake volume: 8 to 29 m³/h Outlet velocity: 6 to 24 m/s Air pressure: 1300 Pa

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
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	Camera: (IP68: IEC60529-2013); Self-Supplied Air System: (IP65: IEC60529-2013)

▪ 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.
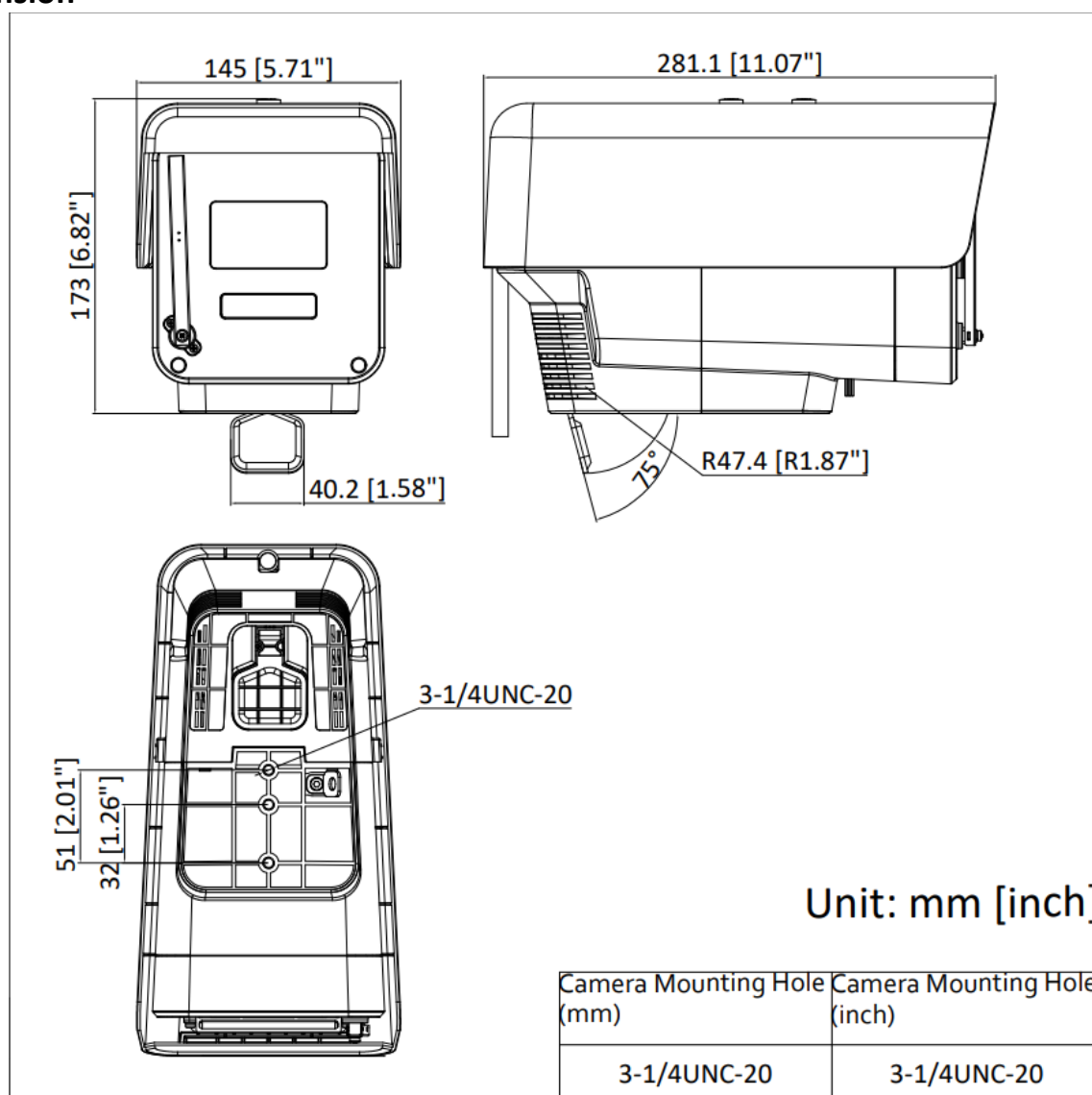
This model has TOP-LEVEL PROTECTION.

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-2CD6045G0/SC-IZRS(2.8-12mm)
DS-2CD6045G0/SC-IZRS(8-32mm)

▪**Dimension**

145 [5.71"]
281.1 [11.07"]
173 [6.82"]
40.2 [1.58"]
75°
R47.4 [R1.87"]
51 [2.01"]
32 [1.26"]
3-1/4UNC-20

Unit: mm [inch]

Camera Mounting Hole (mm)	Camera Mounting Hole (inch)
3-1/4UNC-20	3-1/4UNC-20

▪ **Accessory**

▪**Optional**

DS-1704ZJ Wall mount	DS-1293ZJ Wall mount	DS-1269ZJ Pendant Mount

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