

DS-2XC6083G0-IHRS 8 MP EXIR Fixed Bullet Anti-Corrosion Network Camera

DarkFighter ✦



- High quality imaging with 8 MP resolution
- Excellent low-light performance via DarkFighter technology
- Clear imaging against strong back light due to 120 dB WDR technology
- License Plate Recognition
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67)
- 316L stainless steel enclosure, protecting cameras to be used in corrosive environments, providing reliability and longevity compared to standard cameras
- A built-in wiper removes water and dust on the screen and ensures clear images when the camera is used in dusty or damp environments

▪ Function

Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON), B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter Blue glass module to reduce ghost phenomenon
Lens	
Focal Length & FOV	2.8 mm, horizontal FOV 114.3°, vertical FOV 58°, diagonal FOV 143.1° 4 mm, horizontal FOV 95.2°, vertical FOV 48.4°, diagonal FOV 108.5° 6 mm, horizontal FOV 43.5°, vertical FOV 24.2°, diagonal FOV 50.2°
Focus	Fixed
Aperture	F1.8
DORI	
DORI	2.8 mm: D: 85.2 m, O: 33.8 m, R: 17.0 m, I: 8.5 m 4 mm: D: 101.0 m, O: 40.1 m, R: 20.2 m, I: 10.1 m 6 mm: D: 199.8 m, O: 79.3 m, R: 40.0 m, I: 20.0 m
Illuminator	
Supplement Light Type	IR
Supplement Light Range	Up to 50 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	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	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 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 (704 × 480, 640 × 480)
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Video Compression	Main stream: H.264/H.265/H264+/H265+, Sub-stream: H.264/H.265/MJPEG, Third stream: H.264/H.265, Fourth stream: H.264/H.265/MJPEG, Fifth stream: H.264/H.265/MJPEG
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 each stream

Target Cropping	Yes
Audio	
Audio Type	Mono sound
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/AAC-LC/MP3
Audio Bit Rate	32 to 192 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)/16 Kbps (G.722.1)/8 to 320 Kbps (MP3)/16 Kbps (G.726)/64 Kbps (G.711)/8 to 48 Kbps (PCM)
Audio Sampling Rate	8 kHz/32 kHz/48 kHz/16 kHz
Environment Noise Filtering	Yes
Network	
Protocols	IGMP, SSL/TLS, HTTP, DHCP, Bonjour, PPPoE, DDNS, SMTP, HTTPS, QoS, RTP, SFTP, NTP, UPnP, TCP/IP, 802.1X, FTP, IPv4, IPv6, UDP, DNS, RTSP, RTCP, ICMP, SNMP, 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 1.2
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 required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari 11+, Edge 89+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
Image	
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, contrast, sharpness, white balance, AGC, adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule, Alarm Trigger
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Image Enhancement	BLC, HLC, 3D DNR
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format
Image Stabilization	EIS
Privacy Mask	Yes
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 256 GB
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 or max. 110 VAC, 500 mA)
Reset Key	Yes
Event	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD error), video quality diagnosis, vibration detection
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning
Deep Learning Function	
Road Traffic and Vehicle Detection	Blocklist and allowlist: up to 10,000 records Captures vehicle that has no license plate Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.)
Metadata	Road traffic
General	
Power	12 VDC $\pm$ 20%, 1.8 A, max. 21.6 W, three-core terminal block PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.5 A to 0.4 A, max. 21.6 W
Material	316L and anti-corrosion coating
Dimension	240.8 mm $\times$ 145 mm $\times$ 166.6 mm (9.5" $\times$ 5.7" $\times$ 6.6")
Package Dimension	477 mm $\times$ 235 mm $\times$ 302 mm (18.7" $\times$ 9.3" $\times$ 11.9")
Weight	Approx. 4200 g (9.26 lb.)
With Package Weight	Approx. 5810 g (12.81 lb.)
Storage Conditions	-40 $^{\circ}$ C to 60 $^{\circ}$ C (-40 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-40 $^{\circ}$ C to 60 $^{\circ}$ C (-40 $^{\circ}$ F to 140 $^{\circ}$ 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	Anti-banding, heartbeat, mirror, flash log, password reset via email, pixel counter
Heater	Yes
Wiper	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
Safety	CB: IEC 62368-1:2014+A11, CE-LVD: EN 62368-1:2014/A11:2017
Environment	CE-RoHS: 2011/65/EU
Protection	IP67: IEC 60529-2013

Anti-Corrosion Protection	NEMA 4X: NEMA 250-2018 C5-M: 720H neutral salt spray, 480H water condensation; Exterior environments: industrial areas with high humidity and aggressive atmosphere and coastal areas with high salinity; Interior environments: buildings or areas with almost permanent condensation and with high pollution.
Other	DNV

▪ 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.

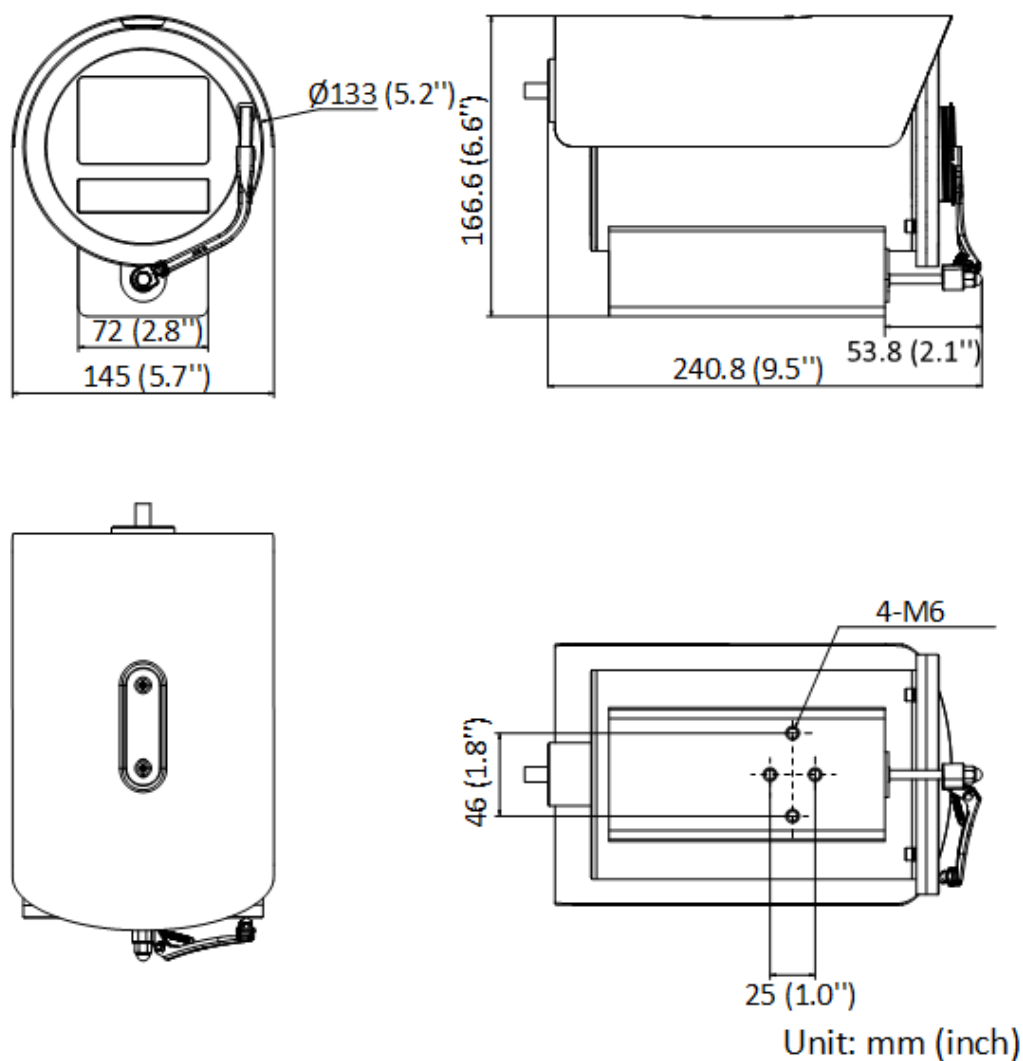
▪ Available Model

DS-2XC6083G0-IHRS(6mm)

DS-2XC6083G0-IHRS(2.8mm)

DS-2XC6083G0-IHRS(4mm)

▪ Dimension



With -R Model

- Accessory
- Optional

DS-1704ZJ-Y-AC(O S) Wall mount	DS-1284ZJ-M-AC3(OS) Wall mount	DS-1751ZJ-AC(OS) Pendant Mount
		

See Far, Go Further



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