HIKVISION

DS-2XC6646G0/P-IZH(R)S
4 MP ANPR IR Varifocal Bullet Network Camera

With -R Model

Without -R Model

- High quality imaging with 4 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(-R) removes water and dust on the screen and ensures clear images when the camera is used in dusty or damp environments

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0.0001 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 to 12 mm, horizontal FOV 100.8° to 40.2°, vertical FOV 53.3° to 22.5°, diagnol FOV 122.3° to 46.2° 8 to 32 mm, horizontal FOV 40.7° to 14.6°, vertical FOV 22.3° to 8.3°, diagnol FOV 47.4° to 16.7°
Focus	Auto, semi-auto, manual
Aperture	2.8 to 12 mm: F1.38 to F2.5 8 to 32 mm: F1.7

DORI	
DORI	Wide: 2.8 to 12 mm: D: 60 m, O: 23.8 m, R: 12 m, I: 6 m 8 to 32 mm: D: 150.3 m, O: 59.7 m, R: 30.1 m, I: 15 m Tele: 2.8 to 12 mm: D: 149 m, O: 59.1 m, R: 29.8 m, I: 14.9 m 8 to 32 mm: D: 400 m, O: 158.7 m, R: 80 m, I: 40 m

Illuminator	
Supplement Light Type	IR
Supplement Light Range	2.8 to 12 mm: 60 m 8 to 32 mm: 100 m
Smart Supplement Light	Yes
IR Wavelength	850 nm

Video	
Main Stream	50 Hz: 25 fps (2688 × 1520, 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: 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.265+/H.265/H.264+/H.264 Sub-stream/Fourth stream/Fifth stream: H.265/H.264/MJPEG Third stream: H.265/H.264
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.265 and H.264 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	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/16 to 64 Kbps (AAC-LC)/8 to 320 Kbps (MP3)
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz
Environment Noise Filtering	Yes
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP,UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets
Simultaneous Live View	Up to 20 channels
API	Open Network Video Interface (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: IE10, IE11 Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Safari12+ Local service: Chrome 57.0+, Firefox 52.0+
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, Video Trigger
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Image Enhancement	BLC, HLC, Defog, 3D DNR
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format
Image Stabilization	EIS
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)
RS-485	Without -R: 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive) -R: does not support
Reset Key	Yes
Wiegand	/P: 1 Wiegand (CardID 26bit, SHA-1 26bit, Hik 34bit, NEWG 72bit)
Event	
Basic Event	Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality diagnosis, vibration detection
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection (support alarm triggered by specified target types (human and vehicle)) Scene change detection, audio exception detection, defocus 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	Metadata of road traffic is supported.
General	
Power	12 VDC ± 20%, 1.8 A, max. 22 W, three-core terminal block PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V), 0.5 A to 0. 4 A, max. 22 W
Material	316L and anti-corrosion coating
Dimension	With -R: 240.8 mm × 145 mm × 166.6 mm (9.5" × 5.7" × 6.6") Without -R: 224 mm × 145 mm × 143.5 mm (8.8" × 5.7" × 5.6")
Package Dimension	477 mm × 235 mm × 302 mm (18.7" × 9.3" × 11.9")
Weight	With -R: approx. 4265 g (9.4 lb.) Without -R: approx. 3710 g (8.2 lb.)
With Package Weight	With -R: approx. 5115 g (11.3 lb.) WIthout -R: approx. 4560 g (10.1 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	Anti-banding, 5 streams, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter
Heater	Yes

Wiper	-R: Yes
Approval	
EMC	FCC: 47 CFR Part 15, Subpart B CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EEN 61000-3-3:2013+A1:2019, EN 50130-4: 2011 +A1: 2014 RCM: AS/NZS CISPR 32: 2015 IC: ICES-003: Issue 7 KC: KN 32: 2015, KN 35: 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 (without -R)
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.

▪ 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.

▪ 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.
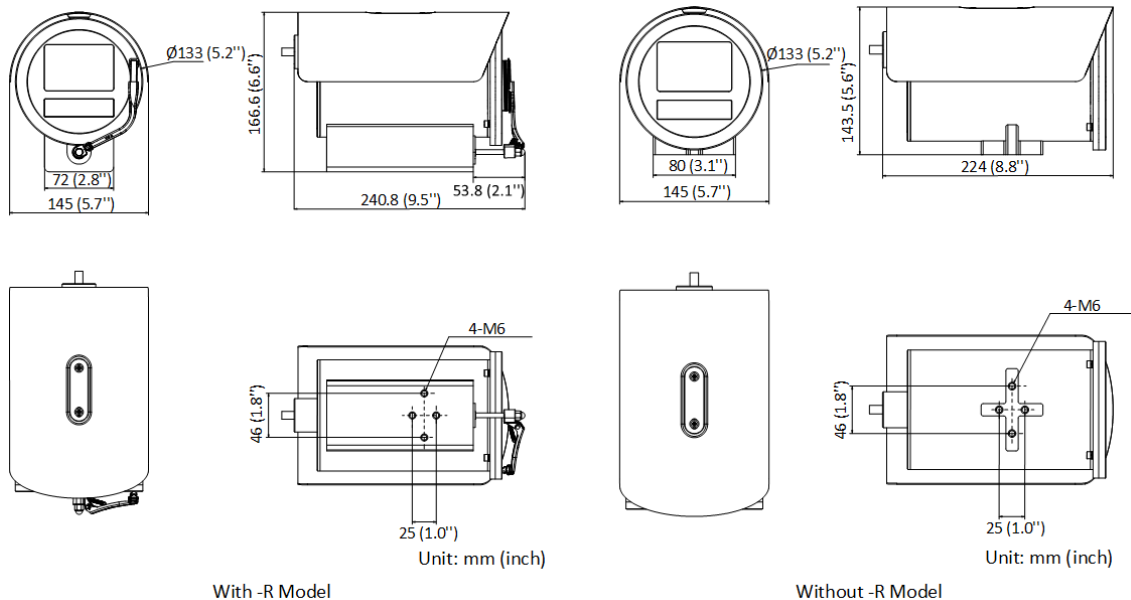
This model has TOP-LEVEL PROTECTION.

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-2XC6646G0/P-IZHS (2.8 to 12 mm, 8 to 32 mm)

DS-2XC6646G0/P-IZHRS (2.8 to 12 mm, 8 to 32 mm)

▪ Dimension

Ø133 (5.2")
166.6 (6.6")
72 (2.8")
145 (5.7")
240.8 (9.5")
53.8 (2.1")

Ø133 (5.2")
143.5 (5.6")
80 (3.1")
145 (5.7")
224 (8.8")

4-M6
46 (1.8")
25 (1.0")
Unit: mm (inch)

4-M6
46 (1.8")
25 (1.0")
Unit: mm (inch)

With -R Model

Without -R Model

▪ Accessory

▪ Optional

DS-1704ZJ-Y-AC(OS)
Wall Mount

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