

DS-2CD3086G3-IU(Y) 8 MP AcuSense Fixed Mini Bullet 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.

- 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
- Built-in arrayed dual-microphone for real-time high quality audio security
- Water and dust resistant (IP67)
- -Y: Anti-corrosion design, providing reliability and longevity compared to standard (NEMA 4X)

▪ Specification

Model		DS-2CD3086G3-IU(Y)
Camera	Image Sensor	1/1.8" Progressive Scan CMOS
	Max. Resolution	3840 × 2160
	Min. Illumination	Color: 0.0008 Lux @ (F1.2, AGC ON), B/W: 0 Lux with IR
	Shutter Time	1 s to 1/100,000 s
	Day & Night	IR cut filter
	Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	Lens Type	Fixed focal lens, 4 and 6 mm optional
	Focal Length & FOV	4 mm, horizontal FOV 90.2°, vertical FOV 48.8°, diagonal FOV 106.2° 6 mm, horizontal FOV 57°, vertical FOV 32.3°, diagonal FOV 65.1°
	Lens Mount	M16
	Iris Type	Fixed
	Aperture	F1.2
	Depth of Field	4 mm: 3.1 m to ∞ 6 mm: 6.8 m to ∞
DORI	DORI	4 mm: D: 102 m, O: 40 m, R: 20 m, I: 10 m 6 mm: D: 152 m, O: 60 m, R: 30 m, I: 15 m
Illuminator	Supplement Light Type	IR
	Supplement Light Range	Up to 40 m
	Smart Supplement Light	Yes
	IR Wavelength	850 nm
HEOP	Open Resources	DS-2CD3086G3-IU(Y):Memory: 40 MB, Smart RAM: 450 MB, eMMC: 2 GB DS-2CD3086G3-IUY(6mm)(B)(海外标配),DS-2CD3086G3-IUY(4mm)(B)(海外标配),DS-2CD3086G3-IUY(2.8mm)(B)(海外标配)(样机):NA DS-2CD3086G3-IUY(4mm)(海外标配),DS-2CD3086G3-IUY(6mm)(海外标配):Memory: 40 MB, Smart RAM: 450 MB, eMMC: 2 GB
	Computing Power	DS-2CD3086G3-IU(Y):1.5 TOPS DS-2CD3086G3-IUY(6mm)(B)(海外标配),DS-2CD3086G3-IUY(4mm)(B)(海外标配),DS-2CD3086G3-IUY(2.8mm)(B)(海外标配)(样机):NA DS-2CD3086G3-IUY(4mm)(海外标配),DS-2CD3086G3-IUY(6mm)(海外标配):1.5 TOPS
	Open Capability	DS-2CD3086G3-IU(Y):HEOP 2.0 OpendevSDK DS-2CD3086G3-IUY(6mm)(B)(海外标配),DS-2CD3086G3-IUY(4mm)(B)(海外标配),DS-2CD3086G3-IUY(2.8mm)(B)(海外标配)(样机):NA DS-2CD3086G3-IUY(4mm)(海外标配),DS-2CD3086G3-IUY(6mm)(海外标配):HEOP 2.0

		OpenDevSDK
	Deep Learning Structure	DS-2CD3086G3-IU(Y):Caffe,PyTorch,TensorFlow,PaddlePaddle,ONNX DS-2CD3086G3-IUY(4mm)(海外标配),DS-2CD3086G3-IUY(6mm)(海外标配):Caffe,PyTorch,TensorFlow,PaddlePaddle,ONNX DS-2CD3086G3-IUY(6mm)(B)(海外标配),DS-2CD3086G3-IUY(4mm)(B)(海外标配),DS-2CD3086G3-IUY(2.8mm)(B)(海外标配)(样机):NA
	Programming Language	DS-2CD3086G3-IU(Y):C,C++ DS-2CD3086G3-IUY(6mm)(B)(海外标配),DS-2CD3086G3-IUY(4mm)(B)(海外标配):NA DS-2CD3086G3-IUY(2.8mm)(B)(海外标配)(样机),DS-2CD3086G3-IUY(4mm)(海外标配),DS-2CD3086G3-IUY(6mm)(海外标配):C,C++
Video	Main Stream	50 Hz: 25 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)
	Sub-Stream	DS-2CD3086G3-IU(Y):50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) DS-2CD3086G3-IUY(4mm)(海外标配),DS-2CD3086G3-IUY(6mm)(海外标配):50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) DS-2CD3086G3-IUY(6mm)(B)(海外标配),DS-2CD3086G3-IUY(4mm)(B)(海外标配),DS-2CD3086G3-IUY(2.8mm)(B)(海外标配)(样机):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 (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)
	Fourth Stream	50 Hz: 1 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 1 fps (1280 × 720, 640 × 480, 640 × 360)
	Video Compression	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 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 and sub-stream
	e-PTZ	Support Patrol and Auto Tracking settings
	AI Encoding	DS-2CD3086G3-IU(Y):NA DS-2CD3086G3-IUY(4mm)(海外标配),DS-2CD3086G3-IUY(6mm)(海外标配):NA DS-2CD3086G3-IUY(6mm)(B)(海外标配),DS-2CD3086G3-IUY(4mm)(B)(海外标配),DS-2CD3086G3-IUY(2.8mm)(B)(海外标配)(样机):Yes

Audio	Audio Type	Mono sound
	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)
	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/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, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets, SRTP, SFTP
	Simultaneous Live View	Up to 6 channels
	API	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
Image	Web Browser	Plug-in free live view: Chrome 91+, Firefox 88+, Edge 91+, Safari 13+ Local service: Chrome 91+, Firefox 88+, Edge 91+
	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
	Image Enhancement	BLC, HLC, 3D DNR, Distortion Correction, Defog
	SNR	≥ 52 dB
	Wide Dynamic Range (WDR)	130 dB
	Image Stabilization	EIS
Interface	Privacy Mask	8 programmable polygon privacy masks
	Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
	On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB

	Audio	Built-in Microphone: Arrayed dual-microphone
	Alarm	NA
	Reset Key	Yes
	Indicator	NA
Event	Basic Event	DS-2CD3086G3-IU(Y): Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception DS-2CD3086G3-IUY(6mm)(B)(海外标配), DS-2CD3086G3-IUY(4mm)(B)(海外标配), DS-2CD3086G3-IUY(2.8mm)(B)(海外标配)(样机): Motion detection (support alarm triggering by specified target types (human and vehicle and animal)), video tampering alarm, exception DS-2CD3086G3-IUY(4mm)(海外标配), DS-2CD3086G3-IUY(6mm)(海外标配): Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception
	Linkage	Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, send email
	Smart Event	Scene change detection, audio exception detection, defocus detection
Deep Learning Function	Face Capture	Yes
	People Counting	Yes
	Perimeter Protection	DS-2CD3086G3-IU(Y): Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) DS-2CD3086G3-IUY(4mm)(海外标配), DS-2CD3086G3-IUY(6mm)(海外标配): Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) DS-2CD3086G3-IUY(6mm)(B)(海外标配), DS-2CD3086G3-IUY(4mm)(B)(海外标配), DS-2CD3086G3-IUY(2.8mm)(B)(海外标配)(样机): 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	12 VDC $\pm$ 25%, 0.6 A, max. 7.2 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 8 W
	Material	Front cover: metal, body: metal, bracket: metal
	Dimension	$\varnothing$ 74.4 mm $\times$ 176.3 mm ($\varnothing$ 2.9" $\times$ 6.9")
	Package Dimension	234 mm $\times$ 120 mm $\times$ 117 mm (9.2" $\times$ 4.7" $\times$ 4.6")
	Weight	Approx. 525 g (1.2 lb.)
	With Package Weight	Approx. 825 g (1.8 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	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, IK10: IEC 62262:2002
	Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018)
AE Parameters	红外灯数量	2颗红外
	ROM和RAM	DS-2CD3086G3-IU(Y):ROM:8GB RAM:1GB DS-2CD3086G3-IUY(2.8mm)(B)(海外标配)(样机):ROM: 512MB RAM: 1GB DS-2CD3086G3-IUY(4mm)(海外标配),DS-2CD3086G3-IUY(6mm)(海外标配):ROM:8GB RAM:1GB DS-2CD3086G3-IUY(6mm)(B)(海外标配),DS-2CD3086G3-IUY(4mm)(B)(海外标配):ROM:512MB RAM:1GB
	恒定光圈	支持, F1.0
	聚焦方式 (focus control modes)	NA
	ABF	不支持
	ICR蓝玻璃 (blue glass module)	支持
	内插 (Connector panel)	不支持
	螺丝材质 (Screw material)	SUS304

▪ Typical Application

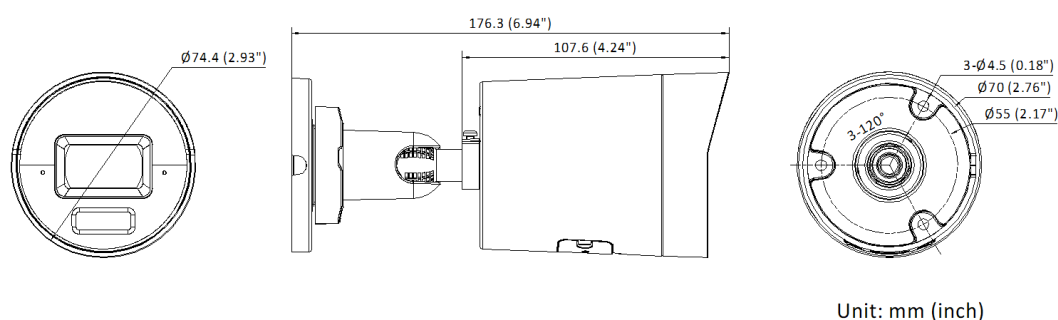
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

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.

▪ Dimension

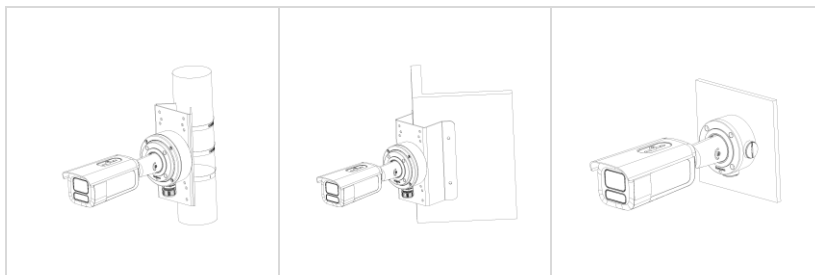


Unit: mm (inch)

▪ Accessory

▪ Optional

DS-1275ZJ-SUS Vertical pole mount	DS-1276ZJ-SUS Corner mount	DS-1280ZJ-XS-Y Junction box
		



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