HIKVISION®

DS-2XC3386G0H-LISU/SL (PA)
Polymer 8MP Anti-Corrosion Fixed Turret

Empowered by deep learning algorithms, Hikvision AcuSense technology brings human or vehicle target classification alarms to front- and back-end devices. The system can greatly reduce false alarms generated by targets other than humans or vehicles, vastly improving alarm efficiency and effectiveness.

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.

- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 1.5 Tops computing power, 60 MB system memory, 371 MB smart RAM, and 2 GB eMMC storage for sharing resources
- High quality imaging with 8 MP resolution
- Clear imaging against strong back light due to 120 dB WDR technology
- Efficient H.265+ compression technology
- Smart Hybrid Light: advanced technology with long range
- Focus on human and vehicle classification based on deep learning
- Provide real-time security via built-in two-way audio
- Active strobe light and audio alarm to warn intruders off
- Audio and alarm interface available
- Water and dust resistant (IP68)

▪ Specification

Camera	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Min. Illumination	Color: 0.002 Lux @ (F1.0, AGC ON),0 Lux with light,B/W: 0.0001 Lux @ (F1.0, AGC ON),B/W: 0 Lux with IR
Shutter Time	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Lens	
Lens Type	Fixed focal lens, 2.8 and 4 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 108.8°, vertical FOV 56.4°, diagonal FOV 134.3° 4 mm, horizontal FOV 93.3°, vertical FOV 47.2°, diagonal FOV 114.2°
Lens Mount	M16
Iris Type	Fixed
Aperture	F1.0
Depth of Field	2.8 mm: 3.3 m to ∞ 4 mm: 3.8 m to ∞
DORI	
DORI	2.8 mm, D: 89.2 m, O: 35.4 m, R: 17.8 m, I: 8.9 m 4 mm, D: 100 m, O: 39.7 m, R: 20 m, I: 10 m
Illuminator	
Supplement Light Type	IR,White Light
Supplement Light Range	Up to 30 m
IR Wavelength	850 nm
HEOP	
Open Resources	Memory: 60 MB, Smart RAM: 371 MB, eMMC: 2 GB
Computing Power	1.5 TOPS
Open Capability	HEOP 2.0 OpendevSDK, Basic service, basic media capability, deep learning reasoning acceleration capability
Deep Learning Structure	Caffe,PyTorch,TensorFlow,PaddlePaddle,ONNX
Programming Language	C,C++,Go
AI Open Platform	
Model Specification	Supports 4 model packages, and each model package supports detecting 16 target types and classifying 4 targets. The targets can be classified as 64 types. The device runs only 1 model at the same time. Built-in Hard Hat Detection
Video	
Main Stream	50 Hz: 20 fps (3840 × 2160, 3072 ×1728, 2560 ×1440, 1920 × 1080, 1280 × 720) 60 Hz: 24 fps (3840 × 2160, 3072 ×1728, 2560 ×1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 20 fps (704 × 576, 640 × 480) 60 Hz: 24 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)

Fourth Stream	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)
	60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)
Video Compression	Main stream: H.264/H.264+/H.265/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
Target Cropping	Yes
Audio	
Audio Type	Mono sound
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)
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, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, ARP, SNMP, WebSocket, WebSockets, RTCP
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-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, TLS1.2, TPM 2.0(FIPS 140-2 level 2)
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR)
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+, Edge 89+, Safari 11+
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
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
SNR	≥ 52 dB
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction
Privacy Mask	8 programmable polygon privacy masks

Interface	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Built-in Microphone	Yes,1 built-in microphone
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, 1 built-in speaker
Alarm	1 input, 1 output (max. 24 VDC, 1 A)
RS-485	No
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),alarm input and output
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 alarm output,trigger recording,audible warning,white light flashing
Deep Learning Function	
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
Face Capture	Detects up to 10 faces simultaneously, Supports swing left and right from -60° to -60°, tilt up and down from -30° to -30°, Uploads face with background and closed-up face pictures
People Counting	Yes
Queue Management	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: regional people queuing-up, waiting time detection Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue Supports raw data export for further analysis Supports real-time data uploading and scheduled data uploading Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold Waiting time detection: supports 1 alarm trigger condition, including greater than threshold
Heat Map	A graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area., Two report types are available, space heat map and time heat map line chart.

Regional People Counting	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 3 detection modes: people density detection, number of people exception detection, waiting time exception detection Supports parameter settings: alarm times per exception, alarm interval, first alarm delay Supports searching real-time number of people People density detection: supports scheduled uploading, number of people change uploading, congestion level uploading Number of people exception detection: supports 6 alarm trigger conditions, including greater than threshold A, less than threshold A, equal to threshold A, not equal to threshold A, greater than threshold A and less than threshold B, less than threshold A or greater than threshold B (threshold A should be less than threshold B) Waiting time exception detection: supports 3 alarm trigger conditions, including greater than threshold A, less than threshold A, greater than threshold A and less than threshold B (threshold A should be less than threshold B)
On/Off Duty Detection	Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: absence detection, on/off duty detection Supports parameter settings: person on duty, absence duration

General

Power	12 VDC ± 25%, 0.75 A, max. 9 W, two-core terminal block, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 9.5 W
Material	Polymer
Dimension	138.63 mm × 138.63 mm × 132.74 mm (5.46" × 5.46" × 5.23")
Package Dimension	452 mm × 235 mm × 272 mm (17.8" × 9.3" × 10.7")
Weight	Approx. 670 g (1.48 lb.)
With Package Weight	Approx. 1151 g (2.54 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)
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, anti-banding
Cable Length	0.3 m (11.8 ft.)
Flashing Light	White Light

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
Safety	CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017
Environment	CE-RoHS: 2011/65/EU
Protection	IP68: IEC 60529-2013
Anti-Corrosion Protection	NEMA 4X (NEMA 250-2018), C5

▪ 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.

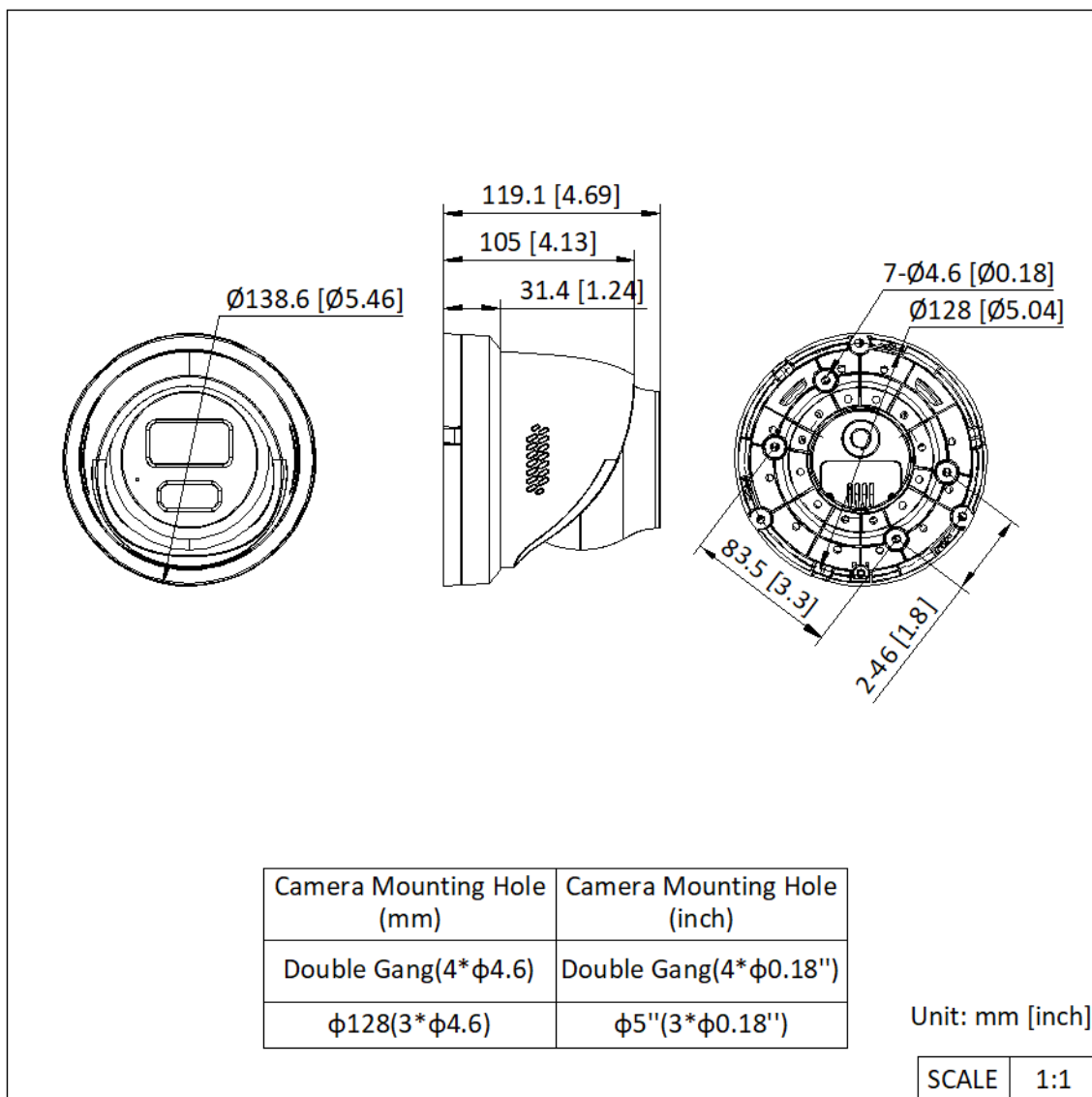| Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are 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-2XC3386G0H-LISU/SL(PA)(2.8mm)O-STD64G

DS-2XC3386G0H-LISU(PA)(2.8mm)/64G

DS-2XC3386G0H-LISU/SL(PA)(2.8mm)

DS-2XC3386G0H-LISU/SL(PA)(4mm)

▪ Dimension

Camera Mounting Hole (mm)	Camera Mounting Hole (inch)
Double Gang(4*φ4.6)	Double Gang(4*φ0.18'')
φ128(3*φ4.6)	φ5''(3*φ0.18'')

Unit: mm [inch]

SCALE	1:1

▪ **Accessory**

▪ **Included**

DS-1280ZJ-DM55 (B)-428CPY

▪ **Optional**

DS-1258ZJ-L-428CP Y

See Far, Go Further

HIKVISION®