DS-2XC3146G0H-LISU/SL (PA)

4 MP Smart Hybrid Light Motorized Varifocal Dome 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.

- Motorized Pan, Tilt, and Rotate for easy installation and monitoring
- 24/7 colorful imaging via ColorVu technology
- Smart Hybrid Light: Integrates IR and White lights, 3 supplemental lighting modes
- Clear imaging against strong back light due to 130 dB WDR technology
- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 1.5 Tops computing power, 150 MB system memory, 371 MB smart RAM, and 1 GB eMMC storage for sharing resources
- Clear two-way audio with dual-array mic
- Active strobe light and audio alarm to warn intruders off (-SL)
- Water and dust resistant (IP68) and vandal resistant (IK10)
- Audio and alarm interface available
- Anti-corrosion polymer enclosure, protecting cameras to be used in corrosive environments, providing reliability and longevity compared to standard cameras

▪ Specification

Camera	
Image Sensor	1/2.9" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.001 Lux @ (F1.2, AGC ON),0 Lux with light
Shutter Time	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Remote adjustment (Max. 1000 cycles) Pan: -175° to 175°,tilt: 0° to 85°,rotate: 0° to 350°
Lens	
Lens Type	Fixed focal lens, 2.8 and 4 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 100.2°, vertical FOV 54.7°, diagonal FOV 119.7° 4 mm, horizontal FOV 81.1°, vertical FOV 44.7°, diagonal FOV 94.6°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.0
Depth of Field	2.8 mm: 1.9 m to ∞ 4 mm: 2.5 m to ∞
DORI	
DORI	2.8 mm, D: 63 m, O: 25 m, R: 12 m, I: 6 m 4 mm, D: 78 m, O: 31 m, R: 15 m, I: 7 m
Illuminator	
Supplement Light Type	IR,White Light
Supplement Light Range	Up to 40 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
HEOP	
Open Resources	Memory: 150 MB, Smart RAM: 371 MB, eMMC: 1 GB
Computing Power	1.5 TOPS
Open Capability	HEOP 2.0 OpendevSDK
Deep Learning Structure	Caffe,PyTorch,TensorFlow,PaddlePaddle,ONNX
Programming Language	C,C++,Go
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: 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.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 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.264 and H.265 encoding
Region of Interest (ROI)	5 fixed regions for main stream and sub-stream
Target Cropping	Yes
Audio	
Audio Compression	G.711ulaw/G.711alaw/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, SRTP
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 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)	130 dB
Image Enhancement	BLC,HLC,3D DNR,Defog
SNR	≥ 52 dB
Privacy Mask	4 programmable polygon privacy masks

Interface	
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 1 TB, The memory card needs to be installed before leaving the factory., *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.
Built-in Microphone	Yes, 2 built-in microphones
Built-in Speaker	1 built-in speaker,Max. power consumption: 2 W, max. sound pressure level: 10 cm: 105 dB.
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/24 VAC, 1 A)
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset Key	Yes
Power Output	12 VDC, max. 100 mA
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,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)
General	
Power	12 VDC ± 25%, 1.5 A, max. 18 W,two-core terminal block,reverse polarity protection, PoE: IEEE 802.3at, Class 4, max. 21 W
Material	Base: SMC+ 30%GF, Cover: SMC+ 30%GF, Junction box: Anodized ADC12
Dimension	Ø154.9 mm × 128.53 mm (Ø6.10" × 5.06")
Package Dimension	206 mm × 206 mm × 230 mm (8.1" × 8.1" × 9.1")
Weight	Approx. 1280 g (2.8 lb.)
With Package Weight	Approx. 2120 g (4.7 lb.)
General Function	Heartbeat,anti-banding,mirror,flash log,password reset via email,pixel counter
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
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, 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	IK10: IEC 62262:2002,IP68: 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.

▪ 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.

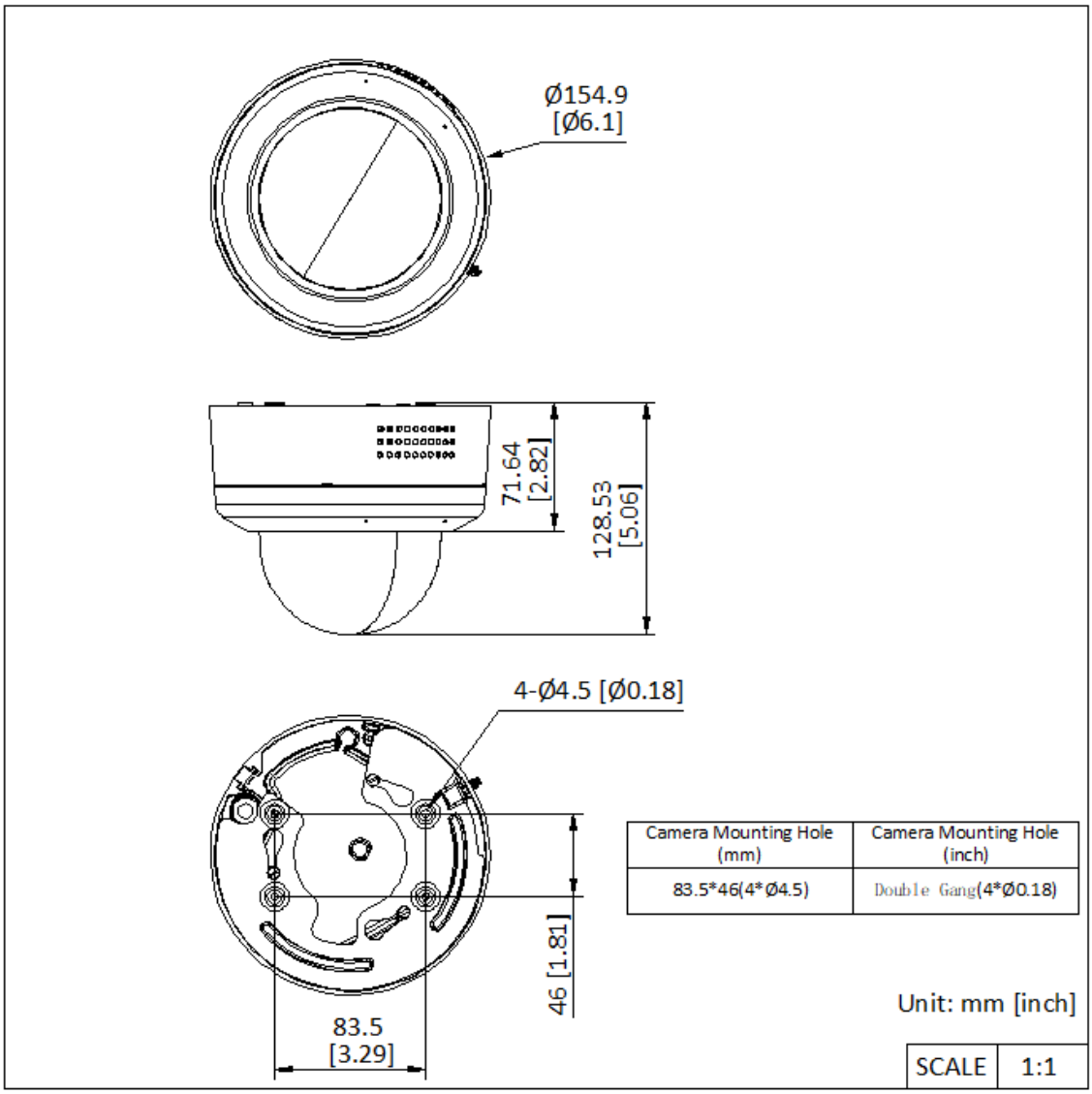
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped 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-2XC3146G0H-LISU/SL(PA)(2.8mm)

DS-2XC3146G0H-LISU/SL(PA)(4mm)

▪ Dimension



Camera Mounting Hole (mm)	Camera Mounting Hole (inch)
83.5*46(4*Ø4.5)	Double Gang(4*Ø0.18)

▪ Accessory

▪ Included

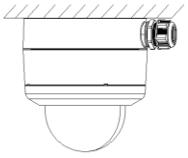
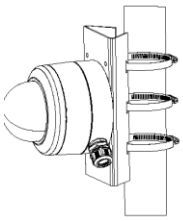
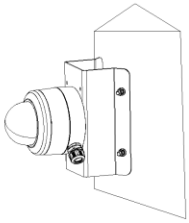
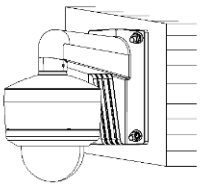
DS-1280ZJ-DM55-428C-Y


▪ Optional

DS-1475ZJ-Y	DS-1476ZJ-Y	DS-1473ZJ-155-428C-Y



- **Installation Methods**

Junction Box DS-1280ZJ-DM55-428 C-Y	Vertical Pole Mounting DS-1475ZJ-Y	Corner Mounting DS-1476ZJ-Y	Wall Mounting DS-1473ZJ-155-428C-Y
			

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