

DS-2CD3146G3-SU
4 MP Fixed Dome Network Camera

AcuSense 3.0



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.

- Compact size for narrow space installation
- 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

▪ Specification

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.001 Lux @ (F1.6, AGC ON)
Shutter Time	1 s to 1/100,000 s
Day & Night	Electronic
Angle Adjustment	Pan: -15° to 15°, tilt: 0° to 75°
Lens	
Lens Type	Fixed focal lens, 2 mm
Focal Length & FOV	2 mm, horizontal FOV 128.3°, vertical FOV 75.4°, diagonal FOV 147°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.6
Depth of Field	2 mm: 0.6 m to ∞
DORI	
DORI	2 mm: D: 45 m, O: 18 m, R: 9 m, I: 4 m
HEOP	
Open Resources	DS-2CD3146G3-SU:Memory: 60 MB, Smart RAM: 450 MB, eMMC: 2 GB DS-2CD3146G3-SU(2mm)(B)(海外标配),DS-2CD3146G3-SU(2mm)(B)(海外中性):NA DS-2CD3146G3-SU(2mm)(海外中性),DS-2CD3146G3-SU(2mm)(海外标配):Memory: 60 MB, Smart RAM: 450 MB, eMMC: 2 GB
Computing Power	DS-2CD3146G3-SU:1.5 TOPS DS-2CD3146G3-SU(2mm)(B)(海外标配),DS-2CD3146G3-SU(2mm)(B)(海外中性):NA DS-2CD3146G3-SU(2mm)(海外中性),DS-2CD3146G3-SU(2mm)(海外标配):1.5 TOPS
Open Capability	DS-2CD3146G3-SU:HEOP 2.0 OpendevSDK DS-2CD3146G3-SU(2mm)(B)(海外标配),DS-2CD3146G3-SU(2mm)(B)(海外中性):NA DS-2CD3146G3-SU(2mm)(海外中性),DS-2CD3146G3-SU(2mm)(海外标配):HEOP 2.0 OpendevSDK
Deep Learning Structure	DS-2CD3146G3-SU:Caffe,PyTorch,TensorFlow,PaddlePaddle,ONNX DS-2CD3146G3-SU(2mm)(海外中性),DS-2CD3146G3-SU(2mm)(海外标配):Caffe,PyTorch,TensorFlow,PaddlePaddle,ONNX DS-2CD3146G3-SU(2mm)(B)(海外标配),DS-2CD3146G3-SU(2mm)(B)(海外中性):NA
Programming Language	DS-2CD3146G3-SU:C,C++ DS-2CD3146G3-SU(2mm)(B)(海外标配),DS-2CD3146G3-SU(2mm)(B)(海外中性):NA DS-2CD3146G3-SU(2mm)(海外中性),DS-2CD3146G3-SU(2mm)(海外标配):C,C++

Video	
Main Stream	50 Hz: 25 fps (2688 × 1520) 60 Hz: 30 fps (2688 × 1520) 50 Hz: 50 fps (1920 × 1080, 1280 × 720) 60 Hz: 60 fps (1920 × 1080, 1280 × 720)
Sub-Stream	DS-2CD3146G3-SU:50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) DS-2CD3146G3-SU(2mm)(海外中性),DS-2CD3146G3-SU(2mm)(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-2CD3146G3-SU(2mm)(B)(海外标配),DS-2CD3146G3-SU(2mm)(B)(海外中性):50 Hz: 25 fps (1280 × 720, 768 × 432, 640 × 360) 60 Hz: 30 fps (1280 × 720, 768 × 432, 640 × 360)
Third Stream	DS-2CD3146G3-SU:50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
Fourth Stream	DS-2CD3146G3-SU:50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 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
AI Encoding	DS-2CD3146G3-SU:NA DS-2CD3146G3-SU(2mm)(海外中性),DS-2CD3146G3-SU(2mm)(海外标配):NA DS-2CD3146G3-SU(2mm)(B)(海外标配),DS-2CD3146G3-SU(2mm)(B)(海外中性):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, 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
Web Browser	Plug-in free live view: Chrome 91+, Firefox 88+, Edge 91+, Safari 13+ Local service: Chrome 91+, Firefox 88+, Edge 91+
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
Image Enhancement	BLC, HLC, 3D DNR, Distortion Correction, Defog
SNR	≥ 52 dB
Wide Dynamic Range (WDR)	130 dB
Image Stabilization	EIS
Privacy Mask	8 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 512 GB
Built-in Speaker	Max. power consumption: 1.5 W, max. sound pressure level: 10 cm: 95 dB.
Audio	Built-in Microphone: Arrayed dual-microphone, 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 VAC/VDC, 1A)
Reset Key	Yes
Power Output	12 VDC, max. 100 mA
Indicator	NA
Event	
Basic Event	DS-2CD3146G3-SU: Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception DS-2CD3146G3-SU(2mm)(B)(海外标配), DS-2CD3146G3-SU(2mm)(B)(海外中性): Motion detection (support alarm triggering by specified target types (human and vehicle and animal)), video tampering alarm, exception DS-2CD3146G3-SU(2mm)(海外中性), DS-2CD3146G3-SU(2mm)(海外标配): Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception

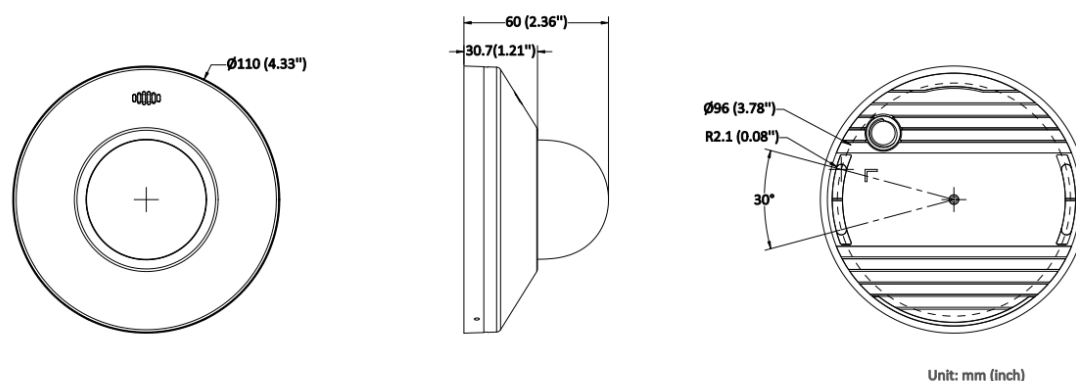
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, trigger recording, trigger capture, send email, audible warning
Smart Event	Scene change detection, audio exception detection, defocus detection
Deep Learning Function	
Face Capture	Yes
People Counting	Yes
Perimeter Protection	DS-2CD3146G3-SU: Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) DS-2CD3146G3-SU(2mm)(海外中性), DS-2CD3146G3-SU(2mm)(海外标配): Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) DS-2CD3146G3-SU(2mm)(B)(海外标配), DS-2CD3146G3-SU(2mm)(B)(海外中性): 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%, 0.7 A, max. 8.4 W, $\varnothing$5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 10 W
Material	Base: Plastic, cover: Plastic
Dimension	$\varnothing$ 110 mm $\times$ 60 mm ($\varnothing$ 4.3" $\times$ 2.4")
Package Dimension	134 mm $\times$ 134 mm $\times$ 108 mm (5.3" $\times$ 5.3" $\times$ 4.3")
Weight	Approx. 630 g (1.4 lb.)
With Package Weight	Approx. 880 g (2.0 lb.)
Storage Conditions	-10 $^{\circ}$ C to 40 $^{\circ}$ C (14 $^{\circ}$ F to 104 $^{\circ}$ F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-10 $^{\circ}$ C to 40 $^{\circ}$ C (14 $^{\circ}$ F to 104 $^{\circ}$ 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, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
AE Parameters	
红外灯数量	1颗红外+1颗白光

ROM和RAM	DS-2CD3146G3-SU:ROM: 8GB RAM: 1GB DS-2CD3146G3-SU(2mm)(海外中性),DS-2CD3146G3-SU(2mm)(海外标配):ROM: 8GB RAM: 1GB DS-2CD3146G3-SU(2mm)(B)(海外标配),DS-2CD3146G3-SU(2mm)(B)(海外中性):ROM: 512MB RAM: 1GB
恒定光圈	支持, F1.6
聚焦方式(focus control modes)	NA
ABF	NA
ICR蓝玻璃 (blue glass module)	不支持
螺丝材质 (Screw material)	SUS304

▪ Key Component

▪ Typical Application

▪ Dimension

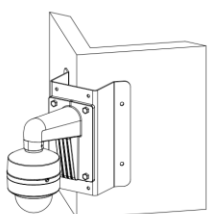
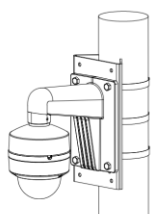
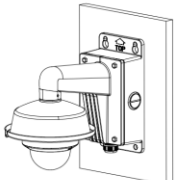
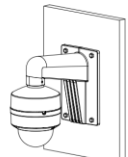


▪ Accessory

▪ Optional

DS-1276ZJ-SUS	DS-1275ZJ-SUS	DS-1272ZJ-120B	DS-1271ZJ-120	DS-1272ZJ-120
				

■ Installation Methods

Corner Mounting DS-1276ZJ-SUS+DS-1272ZJ-120	Vertical Pole Mounting DS-1275ZJ-SUS+DS-1272ZJ-120	Wall Mounting DS-1272ZJ-120B+DS-1253ZJ-M	Wall Mounting DS-1272ZJ-120	Pendant Mounting DS-1271ZJ-120
				

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