

DS-2CD3166G2-ISU 6 MP AcuSense IR Fixed Dome Network Camera

AcuSense













Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, 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, 40 MB system memory, 350 MB smart RAM, and 2 GB eMMC storage for sharing resources
- High quality imaging with 6 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 140 dB true WDR technology
- Focus on human and vehicle target classification based on deep learning
- Water and dust resistant (IP67) and vandal-resistant (IK10)



Specification

Camera					
Image Sensor	1/2.4" Progressive Scan CMOS				
Max. Resolution	3200 × 1800				
Min. Illumination	Color: 0.003 Lux @ (F1.6, AGC ON),B/W: 0 Lux with IR				
Shutter Time	1/3 s to 1/100,000 s				
Day & Night	IR cut filter				
Angle Adjustment	Pan: 0° to 355°,tilt: 0° to 75°,rotate: 0° to 355°				
Lens					
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional				
	2.8 mm, horizontal FOV 105°, vertical FOV 55°, diagonal FOV 127°				
Focal Length & FOV	4 mm, horizontal FOV 78°, vertical FOV 38°, diagonal FOV 96°				
	6 mm, horizontal FOV 51°, vertical FOV 26°, diagonal FOV 59°				
Lens Mount	M12				
Iris Type	Fixed				
Aperture	F1.6				
DORI					
	2.8 mm, D: 76 m, O: 30 m, R: 15 m, I: 7 m				
DORI	4 mm, D: 115 m, O: 45 m, R: 23 m, I: 11 m				
	6 mm, D: 164 m, O: 65 m, R: 32 m, I: 16 m				
Illuminator					
Supplement Light Type	IR				
Supplement Light Range	Up to 50 m				
Smart Supplement Light	Yes				
IR Wavelength	850 nm				
НЕОР					
	Memory: 40 MB,				
Open Resources	Smart RAM: 350 MB,				
	eMMC: 2 GB				
Computing Power	1.5 TOPS				
Open Capability	HEOP 2.0 OpendevSDK				
Deep Learning Structure	Caffe,PyTorch,TensorFlow,PaddlePaddle, ONNX				
Programming Language	C,C++				
Video					
	50 Hz:				
	20 fps (3200 × 1800)				
	25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
Main Stream	60 Hz:				
	20 fps (3200 × 1800)				
	30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)				
Sub-Stream	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)				
	1920 × 1080 25/30fps (when main stream is lower than 3200*1800)				
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)				
	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)				
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)				



Fourth Stream	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)			
. Carar oa cam	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 16 Mbps			
H.264 Type	Baseline Profile,Main Profile,High Profile			
Н.265 Туре	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.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC			
A 1: D: D :	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps			
Audio Bit Rate	(MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)			
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz			
Environment Noise Filtering	Yes			
Network				
	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP,			
Protocols	IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SFTP, ARP, SNMP,			
	WebSocket, WebSockets, SRTP			
Simultaneous Live View	Up to 6 channels			
API	ONVIF (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP			
,	Up to 32 users			
User/Host	3 user levels: administrator, operator, and user			
	Password protection, complicated password, HTTPS encryption, 802.1X authentication			
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest			
Security	authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network			
Security	Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS			
	1.1/1.2/1.3, host authentication (MAC address)			
	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR),			
Network Storage	Together with high-end Hikvision memory card, memory card encryption and health			
Network Storage	detection are supported.			
Client	iVMS-4200,Hik-Connect,Hik-Central			
CHEFIC	Plug-in required live view: IE 10, IE 11,			
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+,			
wen prowser				
Imago	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+			
Image Darameters Switch	Voc			
Image Parameters Switch	Yes			
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable			
D. All Lice is t	by client software or web browser			
Day/Night Switch	Day,Night,Auto,Schedule			
Wide Dynamic Range (WDR)	140 dB			



Image Enhancement	BLC,HLC,3D DNR,Defog				
SNR	≥ 52 dB				
Image Stabilization	EIS				
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 512 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. 12 VDC, 30 mA)				
Built-in Microphone	-U: Yes				
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				
Smart Event	scene change detection, audio exception detection, defocus detection, unattended baggage detection, object removal detection, loitering detection, people gathering detection, fast moving detection, parking 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					
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)				
Face Capture	Yes				
People Counting	Yes				
Heat Map	Yes				
Metadata	Intrusion detection,line crossing detection,region entrance detection,region exiting detection				
General					
Power	12 VDC ± 25%, 0.66 A, max. 8 W,Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3af, Class3, max. 9.5 W				
Material	Base: Metal, cover: Metal				
Dimension	Ø121.5 mm × 97.6 mm (Ø4.8" × 3.8")				
Package Dimension	150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.6")				
Weight	Approx. 500 g (1.1 lb.)				
With Package Weight	Approx. 700 g (1.54 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 65 °C (-22 °F to 149 °F). Humidity 95% or less (non-condensing)				
General Function	Heartbeat,anti-banding,mirror,flash log,password reset via email,pixel counter				



	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,
Language	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, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN
	50130-4: 2011 +A1: 2014,
	RCM: AS/NZS CISPR 32: 2015,
	IC: ICES-003: Issue 7,
	KC: KN32: 2015, KN35: 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

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 NO SPECIFIC PROTECTION.

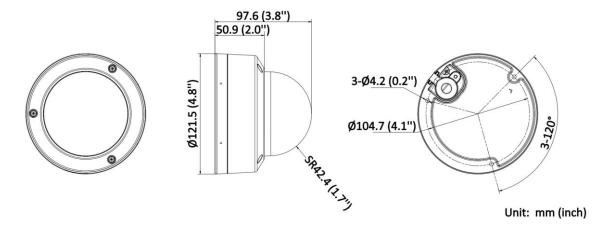
Level	Description		
	Hikvision products at this level are equipped for use in areas		
Top-level protection	where professional anti-corrosion protection is a must.		
Top-level protection	Typical application scenarios include coastlines, docks,		
	chemical plants, and more.		
	Hikvision products at this level are equipped for use in areas		
	with moderate anti-corrosion demands. Typical application		
Moderate protection	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		
No specific protection	where no specific anti-corrosion protection is needed.		

Available Model

DS-2CD3166G2-ISU(2.8mm)(H)(MEA) DS-2CD3166G2-ISU(6mm)(H)(MEA)



Dimension



Accessory

Optional

DS-1272ZJ-120 Wall mount	DS-1272ZJ-120B Wall mount	DS-1271ZJ-120 Pendant Mount	DS-1275ZJ-SUS Vertical pole mount	DS-1276ZJ-SUS Corner mount
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	0			
DS-1280ZJ-DM46 Junction box	DS-2280ZJ-WA120 Junction box	DS-2210ZJ-WA-120 Pendant Mount	DS-2200ZJ-WA-120 Wall mount	DS-2200ZJ-WAJ-12 0 Wall mount







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