

# DS-2CD3166G2-IS(U)/UHK 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 120 dB true WDR technology
- Focus on human and vehicle target classification based on deep learning
- Advanced streaming technology that enables smooth live view and data self-correcting in poor network
- Water and dust resistant (IP67) and vandal-resistant (IK10)



# Specification

Specification					
Camera					
Image Sensor	1/1.8" 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 40 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)				
NASia Chasana	25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
Main Stream	60 Hz:				
	20 fps (3200 × 1800)				
	30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)				
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)				
	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)				
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)				
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Fourth Stream	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)				
	60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)				
	Main stream: H.265/H.264/H.264+/H.265+,				
Video Compression	Sub-stream: H.265/H.264/MJPEG,				
	Third stream: H.265/H.264,				
N. 1	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				
Target Cropping	Yes				
Audio					
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC				
Audio Dit Data	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				
	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				
	detection are supported.				
Client	iVMS-4200,Hik-Connect,Hik-Central				
	Plug-in required live view: IE 10, IE 11,				
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+,				
	Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+				
Image	2000.00.00.00.00.00.00.00.00.00.00.00.00				
Image Parameters Switch	Yes				
mage rarameters switch	Rotate mode,saturation,brightness,contrast,sharpness,gain,white balance,adjustable				
Image Settings	by client software or web browser				
Day/Night Switch					
Day/Night Switch	Day,Night,Auto,Schedule				
Wide Dynamic Range (WDR)	120 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 512 GB				
	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input				
	impedance: 4.7 K $\Omega$ , interface type: non-equilibrium,				
Audio	1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output				
	impedance: 100 $\Omega$ , 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					
Dania Franch	Motion detection (support alarm triggering by specified target types (human and				
Basic Event	vehicle)), video tampering alarm, exception				
Consent French	scene change detection, audio exception detection, defocus detection, unattended				
Smart Event	baggage detection, object removal detection				
Linkago	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm				
Linkage	output,trigger recording,trigger capture,audible warning				
Deep Learning Function					
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting				
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)				
Face Capture	Yes				
People Counting	Yes				
General					
	12 VDC ± 25%, 0.66 A, max. 8 W,Ø5.5 mm coaxial power plug,reverse polarity				
Power	protection,				
	PoE: IEEE 802.3af, Class3, max. 9.5 W				
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	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)				
Conditions	-30 C to bo C (-22 F to 140 F). Humbally 33% of 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				
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN			
EMC	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			
	CE-RoHS: 2011/65/EU,			
Environment	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-IS(2.8mm)(H)

DS-2CD3166G2-IS(4mm)(H)

DS-2CD3166G2-IS(6mm)(H)

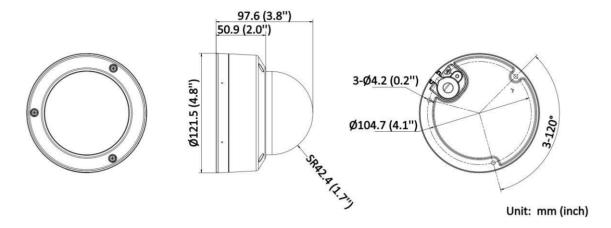
DS-2CD3166G2-ISU(2.8mm)(H)

DS-2CD3166G2-ISU(4mm)(H)

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



### Dimension



# Accessory

# Optional

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



Headquarters
No.555 Qianmo Road, Binjiang District,
Hangzhou 310051, China
T +86-571-8807-5998
www.hikvision.com

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