

DS-2CD3166G2-IS(U) 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.

- 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

Image Sensor1/2.4" Progressive Scan CNMax. Resolution3200 × 1800Min. IlluminationColor: 0.003 Lux @ (F1.6, A)	MOS		
1 11 11			
Min. Illumination Color: 0.003 Lux @ (F1.6.4)			
	Color: 0.003 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR		
Shutter Time 1/3 s to 1/100,000 s	1/3 s to 1/100,000 s		
Day & Night IR cut filter	IR cut filter		
Angle Adjustment Pan: 0° to 355°, tilt: 0° to 7	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°		
Lens			
Lens Type Fixed focal lens, 2.8, 4, and	Fixed focal lens, 2.8, 4, and 6 mm optional		
2.8 mm, horizontal FOV 10	5°, 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	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, I	R: 23 m, I: 11 m		
6 mm, D: 164 m, O: 65 m, I	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			
HEOP			
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	v, PaddlePaddle, ONNX		
Programming Language C, C++			
Video			
50 Hz:			
20 fps (3200 × 1800)			
Main Stream 25 fps (2688 × 1520, 1920	× 1080, 1280 × 720)		
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	, 1280 × 720, 640 × 480, 640 × 360)		
60 Hz: 10 fps (1920 × 1080)	, 1280 × 720, 640 × 480, 640 × 360)		



	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)			
Fourth Stream	60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)			
	Main stream: H.265/H.264/H.264+/H.265+,			
	Sub-stream: H.265/H.264/MJPEG,			
Video Compression	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 and sub-stream			
Target Cropping	Yes			
Audio				
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC			
•	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+,			
	Local service: Chrome 57.0+, Firefox 52.0+			
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			
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			
A ! ! -	impedance: 4.7 K Ω , interface type: non-equilibrium,			
Audio	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				
Dacia Fuent	Motion detection (support alarm triggering by specified target types (human and			
Basic Event	vehicle)), video tampering alarm, exception			
	Line crossing detection, intrusion detection, region entrance detection, region exiting			
Smart Event	detection (support alarm triggered by specified target types (human and vehicle)),			
	scene change detection, audio exception detection, defocus detection			
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm			
Lilikage	output, trigger recording, trigger capture, audible warning			
Deep Learning Function				
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			
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	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)			
Conditions	-30 C to 60 C (-22 F to 140 F). Humiliary 95% 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	
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	
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-2CD3166G2-IS (2.8 mm)(H)

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

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

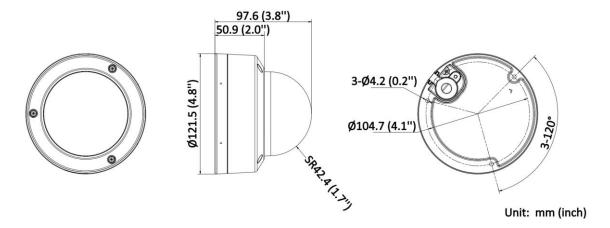
DS-2CD3166G2-ISU (2.8 mm)(H)

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

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



Dimension



Accessory

Optional

DS-1276ZJ-SUS Corner Mount	DS-1272ZJ-120B Wall Mount	DS-1271ZJ-120 Pendant Mount	DS-1272ZJ-120 Wall Mount
DS-1275ZJ-SUS Vertical Pole Mount	DS-1280ZJ-DM46 Junction Box		

Headquarters

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