

DS-2CD3T46G2-4IS(Y) 4 MP AcuSense IR Fixed Bullet Network Camera







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, 60 MB system memory, 400 MB smart RAM, and 2 GB eMMC storage for sharing resources

- High quality imaging with 4 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 targets classification based on deep learning
- Water and dust resistant (IP67)



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Specification

Image Sensor1/3" Progressive Scan CMOSMax. Resolution2684 × 1520Max. ResolutionColor: 0.003 Lux @ IF.1.4, AGC ON), B/W: 0 Lux with IRShutter Time1/3 sto 1/100,000 sDay & NightIR. cut filterAngle AdjustmentPan: 0' to 360', tilt: 0's 09', rotate: 0' to 360'Bay & NightIR. cut filterAngle AdjustmentPan: 0' to 360', tilt: 0's 09', rotate: 0' to 360'EnsFixed focal lens, 2.8, 4, and 6 mm optionalEnsPyeeLens TypeFixed focal lens, 2.8, 4, and 6 mm optionalFocal Length & FOVA mm, horizontal FOV 43', vertical FOV 53', diagonal FOV 122" 6 mm, horizontal FOV 43', vertical FOV 28', diagonal FOV 62"Lens MountM12Lens MountM12ApertureFixed Academic FOV 101', vertical FOV 51', diagonal FOV 62"DoRiA mm, Dr 58 m, 0: 25 m, 8: 12 m, 1: 6 m 6 mm, D: 25 m, 0: 30 m, 8: 25 m, 1: 7 m 6 mm, D: 26 m, 0: 20 m, R: 25 m, 1: 7 m 6 mm, D: 26 m, 0: 20 m, R: 25 m, 1: 2 mSupplement Light RangeUp to 90 mSupplement Light RangeUp to 90 mSupplement Light RangeSo nnHerory:So na emory: 60 MB, emory: 60 MB, Cut StoreComputing Power1.5 TOPSComputing Power1.5 TOPSOpen CapabilityHEOP 2.0 OpendevSDKDep Learning StructureC, e++Main StreamSi 16 (26 8 × 1520, 1920 × 1080, 1280 × 720, 104 × 480, 640 × 360) 61 H:: 0 fps (1280 × 720, 640 × 480, 640 × 360)Sh StreamSi 16 (56 1280 × 720, 640 × 480, 640 × 360) 61 H:: 10 fps (1280 × 720, 640 × 480	Camera	
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Smart Supplement Light Yes IR Wavelength 850 nm HEOP Memory: 60 MB, Open Resources Smart RAM: 400 MB, eMMC: 2 GB 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 Stream Son Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Sub-Stream S0 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) Third Stream S0 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 S0 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)	Supplement Light Type	IR
IR Wavelength850 nmHEOPOpen ResourcesMemory: 60 MB, Smart RAM: 400 MB, eMMC: 2 GBComputing Power1.5 TOPSOpen CapabilityHEOP 2.0 OpendevSDKDeep Learning StructureCaffe, PyTorch, TensorFlow, PaddlePaddle, ONNXProgramming LanguageC, C++Video50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)Sub-Stream50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)Third Stream50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)Fourth Stream50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)	Supplement Light Range	Up to 90 m
HEOPOpen ResourcesMemory: 60 MB, Smart RAM: 400 MB, eMMC: 2 GBComputing Power1.5 TOPSOpen CapabilityHEOP 2.0 OpendevSDKDeep Learning StructureCaffe, PyTorch, TensorFlow, PaddlePaddle, ONNXProgramming LanguageC, C++Video50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)Third Stream50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)Fourth Stream50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)	Smart Supplement Light	Yes
Memory: 60 MB, Smart RAM: 400 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 H2: Structure 50 H2: 10 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 H2: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Sub-Stream 50 H2: 25 fps (1280 × 720, 640 × 480, 640 × 360) Third Stream 50 H2: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) Fourth Stream 50 H2: 10 fps (1280 × 720, 640 × 480, 640 × 360)	IR Wavelength	850 nm
Open ResourcesSmart RAM: 400 MB, eMMC: 2 GBComputing Power1.5 TOPSOpen CapabilityHEOP 2.0 OpendevSDKDeep Learning StructureCaffe, PyTorch, TensorFlow, PaddlePaddle, ONNXProgramming LanguageC, C++VideoMain Stream50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)Sub-Stream50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)Fourth Stream50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)	HEOP	
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Computing Power1.5 TOPSOpen CapabilityHEOP 2.0 OpendevSDKDeep Learning StructureCaffe, PyTorch, TensorFlow, PaddlePaddle, ONNXProgramming LanguageC, C++VideoSo Hz:25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)60 Hz:30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)60 Hz:30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)60 Hz:30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)60 Hz:30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)60 Hz:50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)Third Stream50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)Fourth Stream	Open Resources	Smart RAM: 400 MB,
Open CapabilityHEOP 2.0 OpendevSDKDeep Learning StructureCaffe, PyTorch, TensorFlow, PaddlePaddle, ONNXProgramming LanguageC, C++Video50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)Sub-Stream50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)Third Stream50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)Third Stream50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)		eMMC: 2 GB
Deep Learning Structure Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX Programming Language C, C++ Video 50 Hz: Main Stream 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) Sub-Stream 50 Hz: 25 fps (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 (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)	Computing Power	1.5 TOPS
Programming Language C, C++ Video 50 Hz: Main Stream 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 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) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Open Capability	HEOP 2.0 OpendevSDK
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Main Stream 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 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) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 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 50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Programming Language	C, C++
Main Stream 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 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) 50 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 (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)	Video	
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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) Fourth Stream 50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)	Main Stream	60 Hz:
Sub-Stream 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) Fourth Stream 50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)		30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
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Third Stream 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) Fourth Stream 50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)		60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) Fourth Stream 50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
Fourth Stream		60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)	Fourth Stream	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)
		60 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)



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	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,
	Fourth stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 8 Mbps
Н.264 Туре	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
e-PTZ	Support Patrol and Auto Tracking settings
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
	Yes
Environment Noise Filtering	Tes
Network	TOD UD LOND LITTO LITTOS FTD DUCD DNG DDNG DTD DTCD NTD LID-D CANTD
Durata a da	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
User/Host	Up to 32 users
	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	
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



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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
0	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input
	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	2 inputs, 2 outputs (max. 24 VDC, 1 A)
Reset Key	Yes
Power Output	12 VDC, max. 100 mA (supported by all power supply types)
Event	
Lvent	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	
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
	output, trigger recording, trigger capture, audible warning
Deep Learning Function	
Face Capture	Yes
People Counting	Yes
General	
	12 VDC ± 25%, 1.05 A, max. 12.6 W, Ø5.5 mm coaxial power plug, reverse polarity
Power	protection,
	PoE: IEEE 802.3at, Class 4, max. 14.5 W
Material	Metal
Dimension	325.7 mm × 93.3 mm × 91.2 mm (12.8" × 3.7" × 3.6")
Package Dimension	386 mm × 156 mm × 155 mm (15.2" × 6.1" × 6.1")
Weight	Approx. 1100 g (2.4 lb.)
With Package Weight	Approx. 1820 g (3.5 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 60 °C (-22 °F to 140 °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,
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
Approval	mai, victhamese, sapanese, Latvian, Eithaaman, Fortagaese (Brazil), oktaman
	FCC: 47 CFR Part 15, Subpart B,
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



	UL: UL 62368-1,
	CB: IEC 62368-1: 2014+A11,
Safety	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
Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)

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.

With -Y model: This model has MODERATE PROTECTION. Without -Y model: This model has NO SPECIFIC PROTECTION.

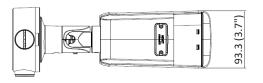
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped 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.

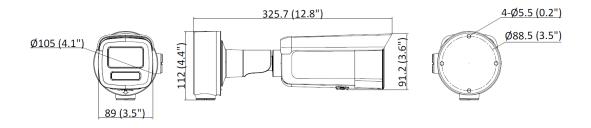
Available Model

DS-2CD3T46G2-4ISY (2.8 mm)(H) DS-2CD3T46G2-4ISY (4 mm)(H) DS-2CD3T46G2-4ISY (6 mm)(H) DS-2CD3T46G2-4IS (2.8 mm)(H) DS-2CD3T46G2-4IS (4 mm)(H) DS-2CD3T46G2-4IS (6 mm)(H)



Dimension





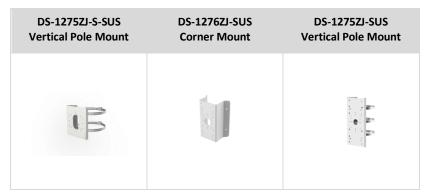
Unit:mm (inch)

Accessory

Included



Optional



Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y bracket models).

