

iDS-2CD8A48G0-XZ(H)S(Y) 4 MP DeepinView Multi-sensor Bullet Camera

















- DeepinView

- Excellent low-light performance via DarkFighterX and ColorVu technology
- Adopt dual-channel design so you can get details in channel 1 and panorama view in channel 2
- High quality imaging with 4 MP resolution in channel 1 and
 4 MP resolution in channel 2
- Clear imaging against strong back light due to 140 dB WDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67) and vandal proof (IK10)



Function

Face Recognition

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

Perimeter Protection

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leafs, lights, animal, flag, etc.

Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.

Road Traffic and Vehicle Detection

With embedded deep learning based license plate capture and recognition algorithms, the camera alone can achieve plate capture and recognition. The algorithm enjoys the high recognition accuracy of common plates and complex-structured plates, which is a great step forward comparing to traditional algorithms. Blocklist and allowlist are available for plate categorization and separate alarm triggering.

Queue Management

With embedded deep learning based algorithms, the camera detects queuing-up people number and waiting time of each person. It can generate reports to compare the efficiency of different queuing-ups and display the changing status of one queue, and supports raw data export for further analysis.



Specification

Camera						
Imaga Cancar	Channel 1: 1/1.8" Progressive Scan CMOS,					
Image Sensor	Channel 2: 1/1.8" Progressive Scan CMOS					
Max. Resolution	Channel 1: 2560 × 1440, channel 2: 2560 × 1440					
	Channel 1: Color: 0.0005 Lux @ (F1.2, AGC ON), 0 Lux with Light, B/W: 0.0001 Lux @					
Min. Illumination	(F1.2, AGC ON), 0 Lux with IR,					
	Channel 2: Color: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with Light, B/W: 0.0001 Lux @					
	(F1.0, AGC ON), 0 Lux with IR					
Shutter Time	1 s to 1/100,000 s					
Day & Night	Blue glass module (less ghost phenomenon)					
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°					
Lens						
	Channel 1: 5 to 20 mm: horizontal FOV 59° to 24°, vertical FOV: 33.4° to 13.3°,					
Focal Length & FOV	diagonal FOV 67.5° to 27.5°					
	Channel 2: 4 mm: horizontal FOV: 89°, vertical FOV: 45°, diagonal FOV: 107°					
Focus	Channel 1: semi-auto					
	Channel 1: P-iris,					
Iris Type	Channel 2: Fixed					
	Channel 1: F1.6,					
Aperture	Channel 2: F1.0					
DORI						
	Channel 1:					
	Wide: D: 99.3 m, O: 39.4 m, R: 19.9 m, I: 9.9 m					
DORI	Tele: D: 248.3 m, O: 98.5 m, R: 49.7 m, I: 24.8 m					
	Channel 2:					
	D: 77 m, O: 30.5 m, R: 15.4 m, I: 7.7 m					
Illuminator						
Supplement Light Type	Hybrid (IR and White Light)					
	Channel 1: up to 60 m,					
Supplement Light Range	Channel 2: up to 30 m					
Smart Supplement Light	Yes					
IR Wavelength	750 nm					
Video						
	Channel 1:					
	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)					
	60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)					
Main Stream	Channel 2:					
	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 720)					
	60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 720)					
Sub-Stream	Channel 1:					
	50 Hz: 25 fps (704 × 576, 640 × 480)					
	60 Hz: 30 fps (704 × 480, 640 × 480)					
	Channel 2:					
	50 Hz: 25 fps (704 × 576, 640 × 480)					
	60 Hz: 30 fps (704 × 480, 640 × 480)					



	Channel 1:			
	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)			
	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
Third Stream	Channel 2:			
	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480)			
	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)			
	Channel 1:			
	50 Hz: 25 fps (704 × 576, 640 × 480)			
	60 Hz: 30 fps (704 × 480, 640 × 480)			
Fourth Stream	Channel 2:			
	50 Hz: 25 fps (704 × 576, 640 × 480)			
	60 Hz: 30 fps (704 × 480, 640 × 480)			
	Channel 1:			
	50 Hz: 25 fps (704 × 576, 640 × 480)			
Fifth Character	60 Hz: 30 fps (704 × 480, 640 × 480)			
Fifth Stream	Channel 2:			
	50 Hz: 25 fps (704 × 576, 640 × 480)			
	60 Hz: 30 fps (704 × 480, 640 × 480)			
	Main stream: H.265+/H.265/H.264+/H.264,			
	Sub-stream: H.265/H.264/MJPEG,			
Video Compression	Third stream: H.265/H.264,			
	Fourth stream: H.265/H.264/MJPEG,			
	Fifth 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)	4 fixed regions for each stream			
Target Cropping	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/44.1 kHz/48 kHz			
Environment Noise Filtering	Yes			
Network				
	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, SRTP, RTSP, RTCP,			
Protocols	PPPOE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4/IPv6, UDP, Bonjour, SSL/TLS,			
Cincultance 11 No	WebSocket, WebSockets			
Simultaneous Live View	Up to 20 channels			
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP			
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 1.2, TLS 1.3				
Network Storage	NAS (NFS, SMB/CIFS), Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.				
Client	iVMS-4200, Hik-Connect				
Web Browser	Plug-in required live view: IE 10, IE11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+				
Image					
Image Parameters Switch	Yes				
Image Settings	Saturation, brightness, contrast, sharpness, AGC, white balance, adjustable by client software or web browser				
Day/Night Switch	Channel 1: Day, Night, Day (DarkfighterX), Auto (DarkfighterX), Schedule (DarkfighterX), Full Time Color, Channel 2: Day, Night, Auto, Scheduled-Switch, Triggered by Alarm input				
Wide Dynamic Range (WDR)	140 dB				
Image Enhancement	Channel 1: BLC, HLC, 3D DNR, Defog, EIS, Channel 2: BLC, HLC, 3D DNR, Defog				
Privacy Mask	8 programmable polygon privacy masks				
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.				
Interface					
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)				
Ethernet Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port				
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256 GB				
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1 A)				
Audio	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K Ω , interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω , interface type: non-equilibrium, mono sound				
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)				
Reset Key	Yes				
Power Output	12 VDC, max. 50 mA				
Event					
Basic Event	Motion detection, video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error, video quality diagnosis, vibration detection				
Smart Event Line crossing detection, intrusion detection, region entrance detection, detection (support alarm triggered by specified target types (human and Scene change detection, audio exception detection, defocus detection)					
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger output, trigger recording, trigger capture, white light flashing, audible warning				



Gets 7 face teatures, Gets 12 human body features, Gets 2 vehicle features Channel 1, Detects up to 120 faces simultaneously, Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°, Uploads face with background and closed-up face pictures Channel 1, Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total. , Recognizes face identity via face modeling, grading and comparing to those in face library, Supports face library encryption Supports 2 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: regional people queuing-up, waiting time detection Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue Queue Management Supports raw data export for further analysis. Supports real-time data uploading and scheduled data uploading Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold waiting time detection: supports 1 alarm trigger condition, including greater than threshold channel 1, Line crossing, intrusion, region entrance, region exiting, Support alarm triggering by specified target types (human and vehicle), Channel 1, Blocklist and allowist: up to 10,000 records Support alarm triggering by specified target types (human and vehicle) Channel 1, Blocklist and allowist: up to 10,000 records Support alarm triggering by specified target types (human and vehicle) Support alarm triggering by specified target types (human and vehicle) Channel 1, Blocklist and allowist: up to 10,000 records Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.) License plate recognition rate ≥98% General Three-core terminal block, 12 VDC ± 20%, 1.38 A, max. 22.4 W, 24 VAC ± 20%, 1.38 A, max. 22.4 W, 24 VAC ± 20%, 1.38 A, max. 22.4 W, 24 VA	Deep Learning Function				
Supports simultaneous detection and capture of human body, face and vehicle, Gets 7 face features, Gets 2 vehicle features, Gets 2 vehicle features Channel 1, Detects up to 120 faces simultaneously, Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°, Uploads face with background and closed-up face pictures Channel 1, Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total. , Recognizes face identity via face modeling, grading and comparing to those in face library, Supports face library encryption Supports face library encryption Supports 2 detection modes: regional people queuing-up, waiting time detection Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue Supports raw data export for further analysis. Support salarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold Waiting time detection: supports 1 alarm trigger conditions, including greater than threshold. Channel 1, Line crossing, intrusion, region entrance, region exiting, Support alarm triggering by specified target types (human and vehicle), Channel 2, Line crossing, intrusion, region entrance, region exiting, Support alarm triggering by specified target types (human and vehicle) Channel 1, Blocklist and allowlist: up to 10,000 records Support larm triggering by spec		Channel 1,			
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Supports face library encryption		Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total. ,			
Supports face library encryption Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: regional people queuing-up, waiting time detection Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue Supports raw data export for further analysis. Supports real-time data uploading and scheduled data uploading Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold Waiting time detection: supports 1 alarm trigger condition, including greater than threshold Channel 1, Line crossing, intrusion, region entrance, region exiting, Support alarm triggering by specified target types (human and vehicle), Channel 2, Line crossing, intrusion, region entrance, region exiting, Support alarm triggering by specified target types (human and vehicle) Channel 1, Blocklist and allowlist: up to 10,000 records Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.) License plate recognition rate 298% General Three-core terminal block, 24 VAC± 20%, 1.87A, max. 22.4 W, 24 VAC± 20%, 1.38 A, max. 22.1 W, Pof: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W Material Aluminum alloy body Dimension Support selection rate 298.5 regions, and independent arming schedule and independent and	Face Comparison	Recognizes face identity via face modeling, grading and comparing to those in face			
Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: regional people queuing-up, waiting time detection Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue Supports raw data export for further analysis. Supports raw data export for further analysis. Supports real-time data uploading and scheduled data uploading Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold Waiting time detection: supports 1 alarm trigger condition, including greater than threshold Channel 1, Line crossing, intrusion, region entrance, region exiting, Support alarm triggering by specified target types (human and vehicle), Channel 2, Line crossing, intrusion, region entrance, region exiting, Support alarm triggering by specified target types (human and vehicle) Channel 1, Blocklist and allowlist: up to 10,000 records Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.) License plate recognition rate ≥98% General Three-core terminal block, 12 VDC ± 20%, 1.87A, max. 22.4 W, 24 VAC ± 20%, 1.38 A, max. 22.4 W, 24 VAC ± 20%, 1.38 A, max. 22.1 W, Pof: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W Material Aluminum alloy body Dimension Support some detection and service regions, and independent arming schedule and support alarm trigger on distribute detection, including vehicle type.		library,			
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Support alarm triggering by specified target types (human and vehicle) Channel 1, Blocklist and allowlist: up to 10,000 records Road Traffic and Vehicle Support license plate recognition of motorcycles (only in checkpoint scenario) Support vehicle attribute detection, including vehicle type, color, brand, etc. (City Street mode is recommended.) License plate recognition rate ≥98% General Three-core terminal block, 12 VDC ± 20%, 1.87A, max. 22.4 W, 24 VAC ± 20%, 1.38 A, max. 22.1 W, PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W Material Dimension Ø140 mm × 410.1 mm (Ø5.5" × 16.1")	remineter Frotection	Channel 2,			
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Street mode is recommended.) License plate recognition rate $\geq 98\%$ General Three-core terminal block,	Road Traffic and Vehicle	Support license plate recognition of motorcycles (only in checkpoint scenario)			
License plate recognition rate $\geq 98\%$ General Three-core terminal block, 12 VDC ± 20%, 1.87A, max. 22.4 W, 24 VAC ± 20%, 1.38 A, max. 22.1 W, PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W Material Dimension Dimension License plate recognition rate $\geq 98\%$ Aluminal block, 12 VDC ± 20%, 1.87A, max. 22.4 W, 24 VAC ± 20%, 1.87A, max. 22.4 W, 24 VAC ± 20%, 1.38 A, max. 22.1 W, PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W	Detection	Support vehicle attribute detection, including vehicle type, color, brand, etc. (City			
Three-core terminal block, 12 VDC ± 20%, 1.87A, max. 22.4 W, 24 VAC ± 20%, 1.38 A, max. 22.1 W, PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W Material Aluminum alloy body Dimension Ø140 mm × 410.1 mm (Ø5.5" × 16.1")		Street mode is recommended.)			
Three-core terminal block, 12 VDC ± 20%, 1.87A, max. 22.4 W, 24 VAC ± 20%, 1.38 A, max. 22.1 W, PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W Material Aluminum alloy body Dimension Ø140 mm × 410.1 mm (Ø5.5" × 16.1")		License plate recognition rate ≥98%			
Power 12 VDC ± 20%, 1.87A, max. 22.4 W, 24 VAC ± 20%, 1.38 A, max. 22.1 W, PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W Material Aluminum alloy body Dimension Ø140 mm × 410.1 mm (Ø5.5" × 16.1")	General				
Power 24 VAC ± 20%, 1.38 A, max. 22.1 W, PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W Material Aluminum alloy body Dimension Ø140 mm × 410.1 mm (Ø5.5" × 16.1")		Three-core terminal block,			
24 VAC ± 20%, 1.38 A, max. 22.1 W, PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W Material Aluminum alloy body Dimension Ø140 mm × 410.1 mm (Ø5.5" × 16.1")	Power	12 VDC ± 20%, 1.87A, max. 22.4 W,			
Material Aluminum alloy body Dimension \emptyset 140 mm × 410.1 mm (\emptyset 5.5" × 16.1")					
Dimension Ø140 mm × 410.1 mm (Ø5.5" × 16.1")		PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 23.9 W			
The state of the s	Material	Aluminum alloy body			
Package Dimension 462 mm × 197 mm × 195 mm (18.2" × 7.76" × 7.68")	Dimension	Ø140 mm × 410.1 mm (Ø5.5" × 16.1")			
- ,	Package Dimension	462 mm × 197 mm × 195 mm (18.2" × 7.76" × 7.68")			



Weight	Approx. 2.36 kg (5.2 lb.)				
With Package Weight	Approx. 3.64 kg (8.0 lb.)				
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)				
Startup and Operating	With -H: -40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing),				
Conditions	Without -H: -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)				
	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,				
Language	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				
General Function	Heartbeat, one-key reset, mirror, password protection, privacy mask, watermark, IP				
General Function	address filter, flash log, control time out, anti-banding				
Heater	With -H: Yes				
Demist	Yes				
Approval					
	FCC: 47 CFR Part 15, Subpart B,				
	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN				
EMC	50130-4: 2011 +A1: 2014,				
EIVIC	RCM: AS/NZS CISPR 32: 2015,				
	IC: ICES-003: Issue 7,				
	KC: KN32: 2015, KN35: 2015				
	UL: UL 62368-1,				
Safety	CB: IEC 62368-1: 2014+A11,				
Salety	CE-LVD: EN 62368-1: 2014/A11: 2017,				
	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				
Anti-Corrosion Protection	-Y model: NEMA 4X (NEMA 250-2018)				
Automotive and Railway	EN50121-4				
Other	PVC FREE				

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.				

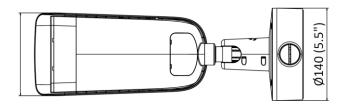


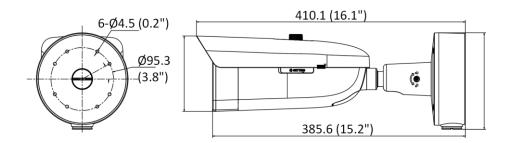
No specific protection Hikvision products at this level are equipped for use in areas where no specific anticorrosion protection is needed.

Available Model

iDS-2CD8A48G0-XZS(5-20/4), iDS-2CD8A48G0-XZHSY(5-20/4)

Dimension







Unit: mm (inch)

Accessory

Optional

DS-1476ZJ-SUS	DS-1476ZJ-Y	DS-1275ZJ-S-SUS	DS-1475ZJ-SUS	DS-1475ZJ-Y
Corner Mount	Corner Mount	Vertical Pole Mount	Vertical Pole Mount	Vertical Pole Mount
		The second secon	ann	

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