

DH-SD8A240VI-HNI

2MP 40x Starlight IR PTZ Network Camera



- · 1/1.8" 2Megapixel CMOS
- · Powerful 40x optical zoom
- · Starlight technology
- · Max. 50/60fps@1080P
- · Support Hi-PoE
- · Smart wiper
- · IR distance up to 450m
- · IP67













System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.001lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Smart Wiper

With Dahua smart wiper technology, the wiper can be started/stopped automatically when the build-in rain senor discerns whether it rains. The technology could offer better surveillance performance against wet weather and reduce dependence on manual operation.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 8KV lightning rating provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Cemers							
March Sentor	Technical Specification					IVS	Tripwire, Intrusion, Abandoned/Missing
Compression	Camera						Face Detection, Heat Map
Progestion	Image Sensor 1/			CMOS		Video	
Resolution 1000P19320-10001/13M1280-0600/730P(1200-730)P1/P00-P000P1/33M1280-0600/730P(1200-730)P1/P00-P000PP1/33M1280-0600/730P(1200-730)P1/P00-P000PP1/33M1280-0600/730P(1200-730)P1/P00-P000PP1/33M1280-0600/730P(1200-730)P1/P00-P000PP1/33M1280-0600PP1/33M1280-0600PP3/23P(1200-P000PP1/33M1280-0600PP3/23P(1200-P000PP1/33M1280-0600PP3/23P(1200-P000PP1/33M1280-0600PP3/23P(1200-P000PP1/33M1280-0600PP3/23P(1200-P000PP1/33M1280-0600PP3/23P(1200-P000PP1/33M1280-0600PP3/23P(1200-P000PP1/33M1280-0600PP3/23P(1200-P000PP1/33M1280-0600PP3/23P(1200-P000P3/23P(1200-P000P3/23P(1200-P000P	Effective Pixels			H) x 1080(V), 2 Megapi	xels	Compression	H.265+/H.265/H.264+/ H.264/MJPEG(Sub Stream)
Minimum Min	Scanning System		Progressive			Streaming Capability	
IR Distance Distance up to 450m 1476m September Distance up to 450m September D	Electronic Shutter Speed		1/1s~1/30,000s			Resolution	1080P(1920x1080)/1.3M(1280x960)/720P(1280x 720)/D1(704x576/704x480)/CIF(352x288/352x240)
Bot Substream	Minimum Illumination						Main stream: 1080P/1.3M/720P(1~50/60fps)
Richard Support Support Support Signard Support Support Signard Signard Support Supp	IR Distance		Distance up to 450m (1476ft)			Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Support Sup	IR On/Off Control		Auto/Manual				Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)
Lens Lens	IR LEDs		10			Bit Rate Control	CBR/VBR
Focal Length S.6mm*223mm	Smart Wiper		Suppo	rt		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Max. Aperture	Lens					Day/Night	Auto(ICR) / Color / B/W
Angle of View H: 60.6° 1.8° April 200mm H: 60.6° 1.8° April 200mm Auto/Manual Noise Reduction Ultra DNR (2D/30) Motion Detection Support Close Focus Distance 100mm* 1000mm Region of Interest Support Close Focus Distance 100mm* 1000mm Region of Interest Support Electronic Image Stabilization (Els) Support Support Stabilization (Els) Support Support Stabilization (Els) Support Support Support Support Stabilization (Els) Support Support Support Support	Focal Length 5.6m		5.6mm	n~223mm		Backlight Compensation	BLC / HLC / WDR(120dB)
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Focus Control	Angle of View H: 60.		5° ~ 1.8°		Gain Control	Auto / Manual	
Close Focus Distance 100mm* 1000mm	Optical Zoom 40x				Noise Reduction	Ultra DNR (2D/3D)	
DORI Distance *Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 6267-64 which defines the criteria for Detect, Observe, Recognize and Identify respectively. Detect Observe Recognize Identify 2340m(7677ft) 930m(3051ft) 460m(1509ft) 230m(755ft) PTZ Audio PTZ Audio Pan: 0" "360" endless; Tilt: 30" "90", auto flip 180" Network Preset Speed Pan: 0.1" "240" /s; Tilt: 120" /s Presets 300 Presets 300 Protocol Engles, Nation Pattern if there is no command in the specified period Auto resorted period Auto resorted period Auto resorted period Auto resorted period Manual Control Speed Poly Activate Presety Scan/ Tour/ Pattern if there is no command in the specified period Network Protocol DH-SD, Pelco-P/D (Auto recognition) Motion detection, Video tampering, Scene changing, Network of Signature and Paddress conflict, illegal Access, Storage anomaly Auto Tracking Support Electronic Image Stabilization (EIS) Optical Defog Support Digital Zoom 16x Support 16x Pilip 180" Pilip 180" Audio Compression G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2 Audio Compression G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2 Network Ethernet R.J-45 (108ase-7/1008ase-TX) Protocol Protocol Protocol Interperability Protocol	Focus Control Auto/		Auto/N	Manual		Motion Detection	Support
Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively. Detect Observe Recognize with dentify respectively. PTZ PAJA0m(7677ft) 930m(3051ft) 460m(1509ft) 230m(755ft) Privacy Masking Up to 24 areas Audio PTZ Audio PTZ Audio PTZ Audio Compression G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2 Network Reset Speed Pan: 0.1 "240" /s; Tilt: 1.01* "100" /s Preset Speed Pan: 2.40" /s; Tilt: 120" /s Preset Speed Speed Speed Auto Tracking Speed adaptation PTZ Mode Speed Setup Human-oriented focal Length/ speed adaptation Speed Setup Human-oriented focal Length/ speed adaptation Auto restore to previous PTZ and lens status after power failure Power up Action Auto Perset / Scan/ Tour/ Pattern if there is no command in the specified period Intelligence Motion detection, Video tampering , Scene changing, Network Unlegal Access, Storage anomaly Auto Tracking Support (EIS) Coptical Defog Support Digital Zoom 16x 16x 16x 16x 16x 16x 16x 16	Close Focus Distance	e	100mr	m~ 1000mm		Region of Interest	Support
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Presets 300 Protocol IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, UDP, UDP, UDP, UDP, UDP, UD		eu				Ethernet	RJ-45 (10Base-T/100Base-TX)
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Protocol DH-SD, Pelco-P/D (Auto recognition) Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS Smart Phone IOS, Android Certifications Auto Tracking Support Web Viewer IE, Chrome, Firefox, Safari IE, Chrome, Firefox, Safari Smart PSS, DSS, DMSS Certifications Certifications CE: EN55032/EN55024/EN50130-4	Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no			Edge Storage	
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Event Trigger Changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly Auto Tracking Support Ce: EN55032/EN55024/EN50130-4	Intelligence				Management Software	Smart PSS, DSS, DMSS	
conflict, Illegal Access, Storage anomaly Certifications CE: EN55032/EN55024/EN50130-4			changing, Network disconnection, IP address			Smart Phone	IOS, Android
Auto fracking Support	Event Irigger				Certifications		
Certifications FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1	Auto Tracking		Support		Certifications	FCC: Part15 subpartB, ANSI C63.4- 2014	

Interface

Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
RS485	1
Audio Interface	1/1
Alarm I/O	7/2

Electrical

Power Supply	AC 24V/3A(±25%), Hi-PoE
Power Consumption	26W, 38W (IR on, Heater on)

Environmental

Operating Conditions	$\text{-}40^{\circ}\text{C} {}^{\sim}70^{\circ}\text{C}$ (-40°F $^{\sim}+158^{\circ}\text{F})$ / Less than 95% RH	
Ingress Protection	IP67	
Vandal Resistance	N/A	

Construction

Casing	Metal
Dimensions	Ф262(mm) x 415.6(mm)
Net Weight	8.5kg(18.74lb)
Gross Weight	14.3kg(31.53lb)

Ordering Information

Туре	Part Number	Description			
	DH-SD8A240VI-HNI	2MP 40x Starlight IR PTZ Network Camera, WDR, PAL			
2MP PTZ	DH-SD8A240VIN-HNI	2MP 40x Starlight IR PTZ Network Camera, WDR, NTSC			
Camera	SD8A240VI-HNI	2MP 40x Starlight IR PTZ Network Camera, WDR, PAL			
	SD8A240VIN-HNI	2MP 40x Starlight IR PTZ Network Camera, WDR, NTSC			
	PFB306W	Wall Mount			
	AC24V/3A	Power Adapter			
Accessina	PFA120	Junction Box			
Accessories	PFA140	Power Box			
	PFA150	Pole Mount			
	PFA151	Corner Mount			

Accessories

Included:



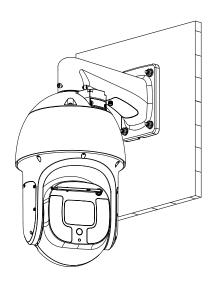




AC24V/3A Power Adapter

Wall Mount

PFB306W



Dimensions (mm)

