

DH-SD8A240VI-HNI

2MP 40x Starlight IR PTZ Network Camera



- · 1/1.9" 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.



Technical Specification				IVS	Tripwire, Intrusion, Abandoned/Missing
Camera				Advanced Intelligent Functions	Face Detection, Heat Map
Image Sensor 1/1.9" CMOS		Video			
Effective Pixels 1920		920(H) x 1080(V), 2 Megapixels		Compression	H.265+/H.265/H.264+/ H.264
Scanning System P		Progressive		Streaming Capability	3 Streams
Electronic Shutter Speed 1		1/1s~1/30,000s		Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240
Minimum Illumination		Color: 0.001Lux@F1.4; B/W: 0.0001Lux@F1.4; 0Lux@F1.4 (IR on)		Frame Rate	Main stream: 1080P/1.3M/720P(1~50/60fps)
S/N Ratio		More than 55dB			Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance Dis		Distance up to 450m (1476ft)			Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)
IR On/Off Control	А	Auto/Manual		Bit Rate Control	CBR/VBR
IR LEDs	1	10		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Smart Wiper	Si	Support		Day/Night	Auto(ICR) / Color / B/W
Lens				Backlight Compensation	BLC / HLC / WDR(120dB)
Focal Length	5	5.6mm~223mm		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Max. Aperture	F	F1.4~ F4.8		Gain Control	Auto / Manual
Angle of View	н	H: 60.6° ~ 1.8°		Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom	4	40x		Motion Detection	Support
Focus Control Au		Auto/Manual		Region of Interest	Support
Close Focus Distance		100mm~ 1000mm		Electronic Image Stabilization (EIS)	Support
DORI Distance				Defog	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			•	Digital Zoom	16x
sensor specification	n and lab test result	t according to EN 62676-4 we and Identify respectively.		Flip	180°
Detect	Observe	Recognize	Identify	Privacy Masking	Up to 24 areas
2340m(7677ft)	930m (3051ft	460m(1509ft)	230m(755ft)	Audio	
PTZ				Compression	G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2
Pan/Tilt Range	Р	an: 0° ~ 360° endless; Tilt: -:	30° ~ 90°,auto flip 180°	Network	
Manual Control Sp	eed P	Pan: 0.1° ~240° /s; Tilt: 0.1° ~100° /s		Ethernet	RJ-45 (10Base-T/100Base-TX)
		Pan: 240° /s; Tilt: 120° /s		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Presets		300		Interoperability	ONVIF Profile S&G, API
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Streaming Method	Unicast / Multicast
Speed Setup		Human-oriented focal Length/ speed adaptation		Max. User Access	20 users
Power up Action		Auto restore to previous PTZ and lens status after power failure		Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Web Viewer	IE, Chrome, Firefox, Safari
Protocol		DH-SD, Pelco-P/D (Auto recognition)		Management Software	Smart PSS, DSS, DMSS
Intelligence		Smart Phone	IOS, Android		
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection, IP address		Certifications	
Auto Tracking		conflict, Illegal Access, Storage anomaly Support		Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1

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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	-40°C ~ 70°C (-40°F ~ +158°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 2MP 40x Starlight IR PTZ Network DH-SD8A240VI-HNI Camera, WDR, PAL 2MP 40x Starlight IR PTZ Network DH-SD8A240VIN-HNI Camera, WDR, NTSC 2MP PTZ Camera 2MP 40x Starlight IR PTZ Network SD8A240VI-HNI Camera, WDR, PAL 2MP 40x Starlight IR PTZ Network SD8A240VIN-HNI Camera, WDR, NTSC PFB306W Wall Mount Accessories AC24V/3A Power Adapter

Accessories

Included:







AC24V/3A Power Adapter

Dimensions



