

# 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.



Tochnical Sec	osification			IVS	Tripwire, Intrusion, Abandoned/Missing
Technical Specification  Camera					
		4 /4 0    0 1 4 0 0		Advanced Intelligent Functions	Face Detection, Heat Map
Image Sensor		1/1.9" CMOS		Video	H 205 / H 205 / H 204 / H 204
Effective Pixels		1920(H) x 1080(V), 2 Megapi	xeis	Compression	H.265+/H.265/H.264+/ H.264
Scanning System Progressive		Streaming Capability	3 Streams		
Electronic Shutter S		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 Illumina		Color: 0.001Lux@F1.4; B/W: 0.0001Lux@F1.4; 0Lux@F1.4 (IR on)			Main stream: 1080P/1.3M/720P(1~50/60fps)
S/N Ratio Mo		More than 55dB		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance up to 450m (1476ft)			Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)		
IR On/Off Control Auto/Manual		Auto/Manual		Bit Rate Control	CBR/VBR
IR LEDs		10		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Smart Wiper		Support		Day/Night	Auto(ICR) / Color / B/W
Lens				Backlight Compensation	BLC / HLC / WDR(120dB)
Focal Length		5.6mm~223mm		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Max. Aperture		F1.4~ F4.8		Gain Control	Auto / Manual
Angle of View		H: 60.6° ~ 1.8°		Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom		40x		Motion Detection	Support
Focus Control Auto/N		Auto/Manual		Region of Interest	Support
Close Focus Distance 10		100mm~ 1000mm		Electronic Image Stabilization (EIS)	Support
DORI Distance				Optical Defog	Support
		ral proximity" of distance whi		Digital Zoom	16x
sensor specification	n and lab test resu	ult according to EN 62676-4 wite and Identify respectively.		Flip	180°
Detect	Observe	Recognize	Identify	Privacy Masking	Up to 24 areas
2340m(7677ft)	930m (3051f		230m(755ft)	Audio	
PTZ		(=====,		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -	30° ~ 90° auto flin 180°	Network	
Manual Control Sp		Pan: 0.1° ~240° /s; Tilt: 0.1° ~		Ethernet	RJ-45 (10Base-T/100Base-TX)
Preset Speed		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	CF FNFF000/FNFF004/FNF0040
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

# Interface

Video Interface	$1port(BNC,1.0V[p-p],75\Omega)$
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 $^{\sim}$ 70°C (-40°F $^{\sim}$ +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**

Ordering information		
Туре	Part Number	Description
	DH-SD8A240VI-HNI	2MP 40x Starlight IR PTZ Network Camera, WDR, PAL
2MP PTZ Camera	DH-SD8A240VIN-HNI	2MP 40x Starlight IR PTZ Network Camera, WDR, NTSC
	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
A	PFA120	Junction Box
Accessories	PFA140	Power Box
	PFA150	Pole Mount
	PFA151	Corner Mount

# **Accessories**

# Included:





Wall Mount



AC24V/3A Power Adapter

# Optional:







PFA140 Power Box



Pole Mount



PFA151 Corner Mount

Junction Mount	Power Box Mount
PFB306W + PFA120	PFB306W + PFA140
Corner Mount	Pole Mount
PFB306W + PFA151	PFB306W + PFA150

# Dimensions (mm)



