

# DH-SD8A440VI-HNI

4MP 40x Starlight IR PTZ Network Camera



- · 1/1.8" STARVIS™ CMOS
- · Powerful 40x optical zoom
- · Starlight technology
- · Max. 25/30fps@4MP
- · 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 0.002lux. 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				Auto Tracking	Support
Camera			IVS	Tripwire, Intrusion, Abandoned/Missing	
			Advanced Intelligent Functions	Face Detection, Heat Map	
Image Sensor 1/1.8" STARVIS™ CMOS		vals	Video	race Detection, fleat Map	
	Effective Pixels 2592(H) x 1520(V), 4 Megapixels			11.255 - //1.255 //1.254 - //1.254 /MIDEG(S) In Share and	
Scanning System Progressive				Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Electronic Shutter Speed 1/1s~1/30,000s		1/30,000s		Streaming Capability	3 Streams
		olor: 0.002Lux@F1.4; B/W: 0.0002Lux@F1.4; Lux@F1.4 (IR on)		Resolution	4M(2592×1520)/3M(2304×1296)/1080P(1920× 1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)
IR Distance		Distance up to 450m (1476ft)			Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/720P(1~50/60fps)
IR On/Off Control	Auto/	Manual		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR LEDs	10	10			Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)
Smart Wiper	Suppo	ort		Bit Rate Control	CBR/VBR
Lens					
Focal Length	5.6mr	m~223mm		Bit Rate	H.265/H.264: 512K ~ 8192Kbps
Max. Aperture F1.4~ F4.8		F4.8		Day/Night	Auto(ICR) / Color / B/W
Angle of View H: 63.9° ~ 2.0°; V: 37.3° ~		9° ~ 2.0°; V: 37.3° ~ 1.1	°; D: 71.6° ~ 2.3°	Backlight Compensation	BLC / HLC / WDR(120dB)
Optical Zoom 40x			White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Focus Control Auto/Manual			Gain Control	Auto / Manual	
Iris Control Auto/Manual			Noise Reduction	Ultra DNR (2D/3D)	
Close Focus Distance 100mm~ 1000mm			Motion Detection	Support	
DORI Distance				Region of Interest	Support
*Note: The DORI distance is	s a "general nro	ximity" of distance wh	ich makes it easy to	Electronic Image Stabilization (EIS)	Support
pinpoint the right camera for sensor specification and lab criteria for Detect, Observe	or your needs o test result acc	The DORI distance is ca ording to EN 62676-4 v	Iculated based on	Optical Defog	Support
Detect Observe		Recognize	Identify	Digital Zoom	16x
			·	Flip	180°
	4m(3819ft)	586m(1922ft)	293m(961ft)	Privacy Masking	Up to 24 areas
PTZ				Audio	
Pan/Tilt Range  Manual Control Speed		o ~ 360° endless; Tilt: - 0.1° ~240° /s; Tilt: 0.1° °	30° ~ 90°, auto flip 180° ~100° /s	Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2
Preset Speed		Pan: 240° /s; Tilt: 120° /s		Network	
Presets 300				Ethernet	RJ-45 (10Base-T/100Base-TX)
PT7 Mode 5 Patte		Pattern, 8 Tour(up to 32 preset per tour), Auto an, 5 Auto Scan		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, RTCP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,
Speed Setup		Human-oriented focal Length/ speed adaptation		Interespondible	FTP, IP Filter,QoS,Bonjour,802.1x  ONVIF Profile S&G, API
Power up Action		Auto restore to previous PTZ and lens status after power failure		Interoperability Streaming Method	Unicast / Multicast
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Max. User Access	20 users
		H-SD, Pelco-P/D (Auto recognition)		Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Intelligence	Intelligence			Web Viewer	IE, Chrome, Firefox, Safari
Supply Tri		Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		Management Software	Smart PSS, DSS, DMSS
Event Trigger	-			Smart Phone	IOS, Android

# Ultra Series | DH-SD8A440VI-HNI

## Certifications

	CE: EN55032/EN55024/EN50130-4
Certifications	FCC: Part15 subpartB,ANSI C63.4- 2014
	UL: UL60950-1+CAN/CSA C22.2,No.60950-1

### Interface

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

### Electrical

Power Supply	AC24V/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

Ordering information				
Туре	Part Number	Description		
4MP PTZ Camera	DH-SD8A440VI-HNI	4MP 40x Starlight IR PTZ Network Camera, WDR, PAL		
	DH-SD8A440VIN-HNI	4MP 40x Starlight IR PTZ Network Camera, WDR, NTSC		
	SD8A440VI-HNI	4MP 40x Starlight IR PTZ Network Camera, WDR, PAL		
	SD8A440VIN-HNI	4MP 40x Starlight IR PTZ Network Camera, WDR, NTSC		
Accessories	PFB306W	Wall Mount		
	AC24V/3A	Power Adapter		

## Accessories

# Included:



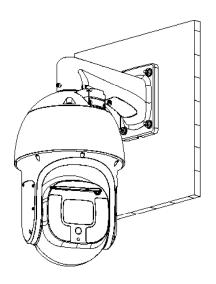




AC24V/3A Power Adapter

# **Wall Mount**

PFB306W



# **Dimensions (mm)**

