

DH-SD6AE240V-HNI

2MP 40x Starlight IR PTZ Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 40x optical zoom
- · Starlight technology
- · H.265 Encoding
- · Max. 50/60fps@1080P
- · Support Hi-PoE
- · IR distance up to 200m
- · IP67, IK10















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 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Ultra-Wide Dynamic Range

For applications with both bright and low lighting conditions that change quickly, Ultra WDR (140 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 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. The camera complies with the IK10 Vandal Resistance impact rating. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection 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.



IVS

Technical Specification						Advanced Intelligent Functions	Face Detection, Heat Map
Camera						Video	
Image Sensor		1/2.8" STARVIS™ CMOS				Compression	H.265+/H.265/H.264+/H.264
Effective Pixels		1920(H) x 1080(V), 2 Megapixels				Streaming Capability	3 Streams
Scanning System Progressive					Resolution	1080P(1920×1080)/1.3M(1280x960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)	
Electronic Shutter Speed		1/1s~1/30,000s				Frame Rate	Main stream: 1080P/1.3M/720P((1~50/60fps)
Minimum Illumination		Color: 0.005Lux@F1.2; B/W: 0.0005Lux@F1.2; 0Lux@F1.2 (IR on)					Sub stream1: D1/CIF(1 ~ 25/30fps)
S/N Ratio		More than 56dB					Sub stream2: 1080P/720P/D1/(1 ~ 25/30fps)
		Distance up to 200m (656ft)				Bit Rate Control	CBR/VBR
IR On/Off Control		Auto/Manual				Bit Rate	H.265/H.264: 256K ~ 8192Kbps
IR LEDs		10				Day/Night	Auto(ICR) / Color / B/W
Lens						Backlight Compensation	BLC / HLC / WDR(140dB)
Focal Length		4.5mm	n~180mm			White Balance	Auto, ATW, Indoor, Outdoor, Manual
Max. Aperture		F1.2 ~	F3.5			Gain Control	Auto / Manual
Angle of View		H: 67.5	5° ~ 1.7°			Noise Reduction	Ultra DNR (2D/3D)
Optical Zoom		40x				Motion Detection	Support
Focus Control		Auto/Manual				Region of Interest	Support
Close Focus Distance 10		100mm~ 1000mm				Electronic Image Stabilization (EIS)	Support
DORI Distance						Optical Defog	Support
pinpoint the right c	amera for your n	eeds. T	dimity" of distance which he DORI distance is cal	culated based on		Digital Zoom	16x
			ording to EN 62676-4 w Identify respectively.	hich defines the		Flip	180°
Detect Observe			Recognize	Identify		Privacy Masking	Up to 24 areas
2469m(8100ft)	69m(8100ft) 988m(3241ft)		494m(1621ft)	247m(810ft)		Audio	
РТZ						Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180°				Network	
Manual Control Spe	eed	Pan: 0.	1° ~200° /s; Tilt: 0.1° ~	120° /s		Ethernet	RJ-45 (10Base-T/100Base-TX)
Preset Speed Presets		Pan: 240° /s; Tilt: 200° /s 300				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
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan				Interoperability	ONVIF Profile S&G, API
Speed Setup		Human-oriented focal Length/ speed adaptation				Streaming Method	Unicast / Multicast
Power up Action		Auto restore to previous PTZ and lens status after				Max. User Access	20 users
Idle Motion		power failure Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period				Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Protocol		DH-SD, Pelco-P/D (Auto recognition)				Web Viewer	IE, Chrome, Firefox, Safari
Intelligence				Management Software	Smart PSS, DSS, DMSS		
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly				Smart Phone Certifications	IOS, Android
Auto Tracking		Support			Certifications	CE: EN55032/EN55024/EN50130-4	
							FCC: Part15 subpartB,ANSI C63.4- 2014

Tripwire, Intrusion, Abandoned/Missing

UL: UL60950-1+CAN/CSA C22.2,No.60950-1

Interface

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

Electrical

Power Supply	AC24V/3A(±25%), Hi-PoE
Power Consumption	24W, 38W (IR on)

Environmental

Operating Conditions	-40°C $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) / Less than 95% RH	
Ingress Protection	IP67	
Vandal Resistance	IK10	

Construction

Casing	Metal
Dimensions	Ф240(mm) x 382 (mm)
Net Weight	6.75kg(14.88lb)
Gross Weight	10.1kg(22.27lb)

Ordering Information Type Part Number Description 2MP 40x Starlight IR PTZ Network DH-SD6AE240V-HNI Camera, WDR, PAL 2MP 40x Starlight IR PTZ Network DH-SD6AE240VN-HNI Camera, WDR, NTSC 2MP PTZ Camera 2MP 40x Starlight IR PTZ Network SD6AE240V-HNI Camera, WDR, PAL 2MP 40x Starlight IR PTZ Network SD6AE240VN-HNI Camera, WDR, NTSC PFB303W Wall Mount PFA111 Mount Adapter AC24V/3A Power Adapter PFA140 Power Box PFB300C Accessories Ceiling Mount PFA120 Junction Box PFA150 Pole Mount PFA151 **Corner Mount** PFB303S Parapet Mount

Accessories

Included:



PFB303W Wall Mount



PFA111 Mount Adapter



AC24V/3A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Pole Mount Corne	er Mount Parapet Mount
Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFA111 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA111 + PFB303W + PFA140	PFA111 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA111 + PFB303W + PFA151	PFA111+ PFB303S

Dimensions (mm)



