

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 making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

The camera allows for ±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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Video **Technical Specification** H.265+/H.265/H.264+/H.264/MJPEG Compression Camera 1/2.8" STARVIS™ CMOS Streaming Capability 3 Streams Image Sensor 1080P(1920×1080)/1.3M(1280x960)/720P(1280× **Effective Pixels** 1920(H) x 1080(V), 2 Megapixels Resolution 720)/D1(704×576/704×480)/CIF(352×288/352×240) Scanning System Progressive Main stream: 1080P(1~50/60fps), 1.3M/720P(1~25/30fps) **Electronic Shutter Speed** 1/1s~1/30,000s Frame Rate Sub stream1: D1/CIF(1 ~ 25/30fps) Color: 0.005Lux@F1.2; 0Lux@F1.2 (IR on) Minimum Illumination Sub stream2: 1080P/720P/D1/(1 ~ 25/30fps) S/N Ratio More than 56dB Bit Rate Control CBR/VBR Distance up to 200m (656ft) IR Distance H.265/H.264: 256K ~ 8192Kbps, MJPEG: 4096K ~ Bit Rate 20480Kbps IR On/Off Control Auto/Manual Day/Night Auto(ICR) / Color / B/W IR LEDs 10 **Backlight Compensation** BLC / HLC / WDR(140dB) Lens White Balance Auto, ATW, Indoor, Outdoor, Manual 4.5mm~180mm Focal Length Gain Control Auto / Manual Max. Aperture F1.2 ~ F3.5 Noise Reduction Ultra DNR (2D/3D) Angle of View H: 67.5° ~ 1.7° Motion Detection Support Optical Zoom 40x Region of Interest Support **Focus Control** Auto/Manual Electronic Image Support Stabilization (EIS) 100mm~ 1000mm Close Focus Distance Optical Defog Support **DORI Distance Digital Zoom** 16x *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 180° sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively. Privacy Masking Up to 24 areas Detect Observe Identify Recognize Audio 2469m(8100ft) 988m(3241ft) 494m(1621ft) 247m(810ft) G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ Compression MPEG2-Layer2 PTZ Network Pan/Tilt Range Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180° RJ-45 (100XBase-T/1000Base-T) Ethernet Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s Manual Control Speed IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, Preset Speed Pan: 240° /s; Tilt: 200° /s Protocol ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x Presets 300 ONVIF, PSIA, CGI Interoperability 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 Auto restore to previous PTZ and lens status after Power up Action NAS (Network Attached Storage), Local PC for power failure Edge Storage instant recording, Micro SD card 128GB Activate Preset/ Scan/ Tour/ Pattern if there is no Idle Motion Web Viewer IE, Chrome, Firefox, Safari command in the specified period Smart PSS, DSS Management Software Protocol DH-SD, Pelco-P/D (Auto recognition) Smart Phone IOS, Android Intelligence Certifications **Auto Tracking** Support

Certifications

Tripwire, Intrusion, Abandoned/Missing, Face

Detection, Heat Map

IVS

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	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 ~ 70°C (-40°F ~ +158°F) / Less than 90% 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 Camera, WDR, PAL DH-SD6AE240V-HNI 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 Accessories PFB300C 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	Corner Mount	Parapet Mount
Ceiling Mount		Junction Mount
PFA111 + PFB300C		PFA111 + PFB303W + PFA120
Power Box Mour	nt	Pole Mount
PFA111 + PFB303W + PF	A140	PFA111 + PFB303W + PFA150
Corner Mount		Parapet Mount
PFA111 + PFB303W + P	FA151	PFA111+ PFB303S

Dimensions (mm)



