

DH-SD6AE245U-HNI

2MP 45x Starlight IR PTZ Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 45x optical zoom
- · Starlight technology
- · H.265 Encoding
- · Max. 50/60fps@1080P
- · Support Hi-PoE
- · IR distance up to 300m
- · 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.

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 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.

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.

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



power failure

Detection, Heat Map

Idle Motion

Intelligence

Auto Tracking

IVS

Protocol

Activate Preset/ Scan/ Tour/ Pattern if there is no

Tripwire, Intrusion, Abandoned/Missing, Face

command in the specified period

DH-SD, Pelco-P/D (Auto recognition)

Technical Specification Video Camera H.265+/H.265/H.264+/H.264 Compression 1/2.8" STARVIS™ CMOS Image Sensor Streaming Capability 3 Streams **Effective Pixels** 1920(H) x 1080(V), 2 Megapixels 1080P(1920×1080)/1.3M(1280×960)/720P(1280× Resolution 720)/D1(704×576/704×480)/CIF(352×288/352×240) RAM/ROM 1024M/128M Main stream: 1080P/1.3M/720P(1~50/60fps) Scanning System Progressive Sub stream1: D1/CIF(1 ~ 25/30fps) Frame Rate **Electronic Shutter Speed** 1/1s~1/30,000s Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps) Minimum Illumination Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on) Bit Rate Control CBR/VBR S/N Ratio More than 56dB Bit Rate H.265/H.264: 448K ~ 8192Kbps IR Distance Distance up to 300m (984ft) Day/Night Auto(ICR) / Color / B/W IR On/Off Control Auto/Manual BLC / HLC / WDR(120dB) **Backlight Compensation** IR LEDs 10 White Balance Auto, ATW, Indoor, Outdoor, Manual Lens Gain Control Auto / Manual 3.95mm~177.7mm Focal Length Ultra DNR (2D/3D) Noise Reduction F1.6~ F4.95 Max. Aperture Motion Detetion Support Angle of View H: 70.3° ~ 1.8° Region of Interest Support Optical Zoom 45x Electronic Image Support **Focus Control** Auto/Manual Stabilization (EIS) Close Focus Distance 100mm~ 1500mm Defog Support **DORI Distance** Digital Zoom *Note: The DORI distance is a "general proximity" of distance which makes it easy to Flip 180° pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the Privacy Masking Up to 24 areas criteria for Detect, Observe, Recognize and Identify respectively. Audio Detect Observe Recognize Identify G.711a/G.711Mu/AAC/G.722/G.726/G.729/ Compression 2345m(7694ft) 938m(3077ft) 469m(1539ft) 234m(768ft) MPEG2-L2 PT7 Network Pan/Tilt Range Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180° RJ-45 (10Base-T/100Base-TX) Ethernet IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, Manual Control Speed Pan: 0.1° ~240° /s; Tilt: 0.1° ~120° /s ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, Protocol DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x Pan: 240° /s; Tilt: 200° /s Preset Speed Interoperability ONVIF, PSIA, CGI Presets 300 Streaming Method Unicast / Multicast PTZ Mode 5 Pattern, 8 Tour, Auto Pan, Auto Scan Max. User Access 20 users Speed Setup Human-oriented focal Length/ speed adaptation NAS (Network Attached Storage), Local PC for Edge Storage Auto restore to previous PTZ and lens status after instant recording, Micro SD card 128GB Power up Action

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Web Viewer

Smart Phone

Certifications

Certifications

Management Software

IE, Chrome, Firefox, Safari

CE: EN55032/EN55024/EN50130-4

FCC: Part15 subpartB, ANSI C63.4-2014

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

Smart PSS, DSS

IOS. Android

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 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 Part Number Description Type 2MP 45x Starlight IR PTZ Network DH-SD6AE245U-HNI Camera, WDR, PAL 2MP 45x Starlight IR PTZ Network DH-SD6AE245UN-HNI Camera, WDR, NTSC 2MP PTZ Camera 2MP 45x Starlight IR PTZ Network SD6AE245U-HNI Camera, WDR, PAL 2MP 45x Starlight IR PTZ Network SD6AE245UN-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

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)



