

DH-SD6AL245U-HNI-IR

2MP 45x Starlight IR PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 45x optical zoom
- · Max. 50/60fps@1080P
- Auto tracking and IVS
- · Support Hi-PoE
- · IR distance up to 300m
- · 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 0.005 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.

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 +60 °C (-40 °F to +140 °F) with 95% humidity. 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 ±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.



Property	Technical Spe	rification					Auto Tracking	Support
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Effective Pixels			1/2 Q" \$TADVIS™ CMO\$					
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IR LEDs	S/N Ratio		More than 56dB					Sub stream1: D1/CIF(1 ~ 25/30fps)
R. CHICD Control CRIVAN	IR Distance		Distance up to 300m (984ft)					
Mary	IR On/Off Control		Auto/Manual				Rit Rate Control	
Day/Night	IR LEDs		1					
Focal Length	Wiper		Suppor	t				
Max. Aperture	Lens						•	
Max. Aperture	Focal Length		3.95mn	n~177.7mm				
Angle of View	Max. Aperture		F1.6~ F4.95					
Second Source Second Source Auto/Manual Region of Interest Support	Angle of View		H: 70.3° ~ 1.8°					
Close Focus Distance Auto/Manual Region of Interest Support	Optical Zoom		45x					
DORN Distance 100mm* 1000mm Electronic Image Stabilization (EIS) Support	Focus Control		Auto/Manual				Motion Detection	Support
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 sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively. Detect Observe Recognize and Identify page-ceptively. Detect Observe Recognize benefit or Detect, Observe, Recognize and Identify page-ceptively. PTZ **Part/Tilt Range Pan: 0* ~ 360* endless; Tilt: -20* ~ 90*, auto flip 180* **Privacy Masking Up to 24 areas **Audio **Compression G.711a/IG.711Mu/AAC/G.722/G.726/G.729/ MPEG2-L2 **Manual Control Speed Pan: 0.1* ~ 200* /s; Tilt: 0.1* ~ 120* /s **Metwork** **Preset Speed Pan: 240* /s; Tilt: 200* /s **Preset Speed Pan: 240* /s; Tilt: 200* /s **Preset Speed Pan: 240* /s; Tilt: 200* /s **Preset Speed Pan: 300 Protocol Protocol Dispersion Compression Protocol Dispersion Compression Protocol Dispersion Protocol Dispersion Compression Compression Protocol Dispersion Compression C	Close Focus Distance	e	100mm	n~ 1000mm			-	Support
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Event Trigger changing, Network disconnection, IP address	Intelligence						Web Viewer	IE, Chrome, Firefox, Safari
						Management Software	Smart PSS, DSS, DMSS	
	Event Trigger						Smart Phone	IOS, Android

Certifications

Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014

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 ~ 60°C (-40°F ~ +140°F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф240(mm) x 357(mm)
Net Weight	6.75kg(14.88lb)
Gross Weight	10.5kg(23.15lb)

Ordering Information Part Number Description Type 2MP 45x Starlight IR PTZ Network Camera, WDR, PAL DH-SD6AL245U-HNI-IR 2MP 45x Starlight IR PTZ Network DH-SD6AL245UN-HNI-IR Camera, WDR, NTSC 2MP PTZ Camera 2MP 45x Starlight IR PTZ Network SD6AL245U-HNI-IR Camera, WDR, PAL 2MP 45x Starlight IR PTZ Network Camera, WDR, NTSC SD6AL245UN-HNI-IR 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

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)



