

# DH-SD6AL830V-HNI

4K 30x Laser PTZ Network Camera



- · 1/1.7" 12Megapixel STARVIS™ CMOS
- · Powerful 30x optical zoom
- · H.265 Encoding
- · Max. 25/30fps@4K
- · Auto tracking and IVS
- · Support Hi-PoE
- · IR distance up to 500m
- · 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, 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.

# **Functions**

#### **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. 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.



Technical Spec	cification					Auto Tracking	Support
Camera				IVS	Tripwire, Intrusion, Abandoned/Missing		
Image Sensor		1/1.7" STARVIS™ CMOS			Advanced Intelligent Functions	Face Detection, Heat Map	
Effective Pixels		3840(H) x 2160(V), 8 Megapixels			Video		
RAM/ROM		1024M/128M			Compression	H.265+/H.265/H.264+/H.264	
Scanning System		Progressive			Streaming Capability	3 Streams	
Electronic Shutter Speed		1/1s~1/30,000s				Resolution	4K(3840x2160)/1080P(1920×1080)/1.3M(1280x
Minimum Illumination	on	Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6;			Resolution	960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)	
S/N Ratio		More than 56dB					Main stream: 4K/1080P/1.3M/720P(1~25/30fps)
IR Distance		Distance up to 500m (1640ft)			Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)	
IR On/Off Control		Auto/Manual					Sub stream2: 1080P/720P/D1(1 ~ 25/30fps)
IR LEDs		Laser module				Bit Rate Control	CBR/VBR
Wiper		Suppor	rt			Bit Rate	H.265/H.264: 256K ~ 8192Kbps
DORI Distance						Day/Night	Auto(ICR) / Color / B/W
			kimity" of distance wh			Backlight Compensation	BLC / HLC / DWDR
sensor specification	and lab test res	needs. The DORI distance is calculated based on esult according to EN 62676-4 which defines the				White Balance	Auto, ATW, Indoor, Outdoor, Manual
		ize and	Identify respectively.	ld-self.		Gain Control	Auto / Manual
Detect	Observe	6.1	Recognize	Identify		Noise Reduction	Ultra DNR (2D/3D)
3892m(12769ft)	1557m(5108	ft)	778m(2552ft)	389m(1276ft)		Motion Detection	Support
Lens						Region of Interest	Support
Focal Length		6mm~180mm			Electronic Image Stabilization (EIS)	Support	
Max. Aperture		F1.6 ~ F4.8			Defog	Support	
Angle of View		H: 61.2° ~ 2.1°			Digital Zoom	16x	
Optical Zoom		30x			Flip	180°	
Focus Control		Auto/Manual			Privacy Masking	Up to 24 areas	
Close Focus Distance	9	100mm~ 1000mm			Audio		
PTZ					Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180°				MPEG2-Layer2	
Manual Control Spee	ed	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s			Network	2. 42 (422 - 7422 - 742	
Preset Speed		Pan: 240° /s; Tilt: 200° /s			Ethernet	RJ-45 (10Base-T/100Base-TX)	
Presets		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 power failure			Max. User Access	20 users	
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period				NAS (Network Attached Storage),Local PC for	
Protocol		DH-SD, Pelco-P/D (Auto recognition)				Edge Storage	instant recording, Micro SD card 256GB
Intelligence					Web Viewer	IE, Chrome, Firefox, Safari	
Event Trigger		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	

## Certifications

Certifications	EN55024/EN50130-4 ibpartB,ANSI C63.4- 2014
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#### 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	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				
Туре	Part Number	Description		
4K PTZ Camera	DH-SD6AL830V-HNI	4K 30x Laser PTZ Network Camera, PAL		
	DH-SD6AL830VN-HNI	4K 30x Laser PTZ Network Camera, NTSC		
	SD6AL830V-HNI	4K 30x Laser PTZ Network Camera, PAL		
	SD6AL830VN-HNI	4K 30x Laser PTZ Network Camera, 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 Mou	ınt
Ceiling Mount		Junction Mount	
PFA111 + PFB300C	Р	PFA111 + PFB303W + PFA1	.20
Power Box Mount		Pole Mount	
PFA111 + PFB303W + PFA1	L40 P	PFA111 + PFB303W + PFA1	.50
Corner Mount		Parapet Mount	
PFA111 + PFB303W + PFA	151	PFA111+ PFB303S	

# Dimensions (mm)



