

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



Technical Spe	cification				Video	
Camera					Compression	H.265+/H.265/H.264+/H.264/MJPEG
Image Sensor 1/1.7"		1/1.7"	/1.7" STARVIS™ CMOS		Streaming Capability	3 Streams
			40(H) x 2160(V), 8 Megapixels		Resolution	4K(3840x2160)/1080P(1920×1080)/1.3M(1280x 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)
RAM/ROM			I/128M			Main stream: 4K/1080P/1.3M/720P(1~25/30fps)
Scanning System Pr		Progre	ssive		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed		1/1s~1/30,000s				Sub stream2: 1080P/720P/D1(1 ~ 25/30fps)
Minimum Illumination C		Color: (	0.05Lux@F1.6; 0Lux (I	R on)	Bit Rate Control	CBR/VBR
S/N Ratio M		More t	han 56dB			H.265/H.264: 256K ~ 8192Kbps, MJPEG: 56K ~
IR Distance Dis		Distanc	Distance up to 500m (1640ft)		Bit Rate	20480Kbps
IR On/Off Control		Auto/N	Manual		Day/Night	Auto(ICR) / Color / B/W
IR LEDs		Laser n	nodule		Backlight Compensation	BLC / HLC / DWDR
Wiper		Suppor	rt		White Balance	Auto, ATW, Indoor, Outdoor, Manual
DORI Distance					Gain Control	Auto / Manual
			simity" of distance wh		Noise Reduction	Ultra DNR (2D/3D)
sensor specification	and lab test res	sult acco	he DORI distance is ca ording to EN 62676-4 v		Motion Detection	Support
Detect	Observe	iize aiiu	Identify respectively.  Recognize	Identify	Region of Interest	Support
3892m(12769ft)	1557m(5108	Bft)	778m(2552ft)	389m(1276ft)	Electronic Image Stabilization (EIS)	Support
Lens					Defog	Support
Focal Length		6mm~:	180mm		Digital Zoom	16x
Max. Aperture		F1.6~	F4.8		Flip	180°
Angle of View		H: 61.2	2° ~ 2.1°		Privacy Masking	Up to 24 areas
Optical Zoom		30x			Audio	
		Auto/N	Manual		Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729 MPEG2-Layer2
Close Focus Distanc	е	100mm~ 1000mm			Network	
PTZ					Ethernet	RJ-45 (10Base-T/100Base-TX)
Pan/Tilt Range  Manual Control Spe	ed		° ~ 360° endless; Tilt: -	20° ~ 90°, auto flip 180°	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.
Preset Speed		Pan: 240° /s; Tilt: 200° /s			Interoperability	ONVIF, PSIA, CGI
Presets		300	. , ,		Streaming Method	Unicast / Multicast
PTZ Mode			rn, 8 Tour, Auto Pan ,	Auto Scan	Max. User Access	20 users
		Human-oriented focal Length/ speed adaptation			Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB
		Auto restore to previous PTZ and lens status after power failure			Web Viewer	IE, Chrome, Firefox, Safari
Idle Motion A		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Management Software	Smart PSS, DSS
		DH-SD, Pelco-P/D (Auto recognition)			Smart Phone	IOS, Android
Intelligence					Certifications	
Auto Tracking Sup		Suppor	rt		Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014
			Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map			1 CC. 1 at £13 Subpat to,ANSI C03.4- 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 ~ 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** Part Number Туре Description 4K 30x Laser PTZ Network Camera, DH-SD6AL830V-HNI 4K 30x Laser PTZ Network Camera, DH-SD6AL830VN-HNI 4K PTZ Camera 4K 30x Laser PTZ Network Camera, SD6AL830V-HNI PAL 4K 30x Laser PTZ Network Camera, SD6AL830VN-HNI 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	F	PFA111 + PFB303W + PI	FA120
Power Box Moun	t	Pole Mount	
PFA111 + PFB303W + PFA	140 F	PFA111 + PFB303W + PF	FA150
Corner Mount		Parapet Mount	
PFA111 + PFB303W + PF	A151	PFA111+ PFB303S	

## Dimensions (mm)



