

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 Specification						Video	
Camera					Compression	H.265+/H.265/H.264+/H.264/MJPEG	
Image Sensor 1/		1/1.7" STARVIS™ CMOS			Streaming Capability	3 Streams	
Effective Pixels 38		3840(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		1024M/128M				Frame Rate	Main stream: 4K/1080P/1.3M/720P(1~25/30fps)
Scanning System		Progressive					Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed		1/1s~1/30,000s					
Minimum Illumination		Color: 0.05Lux@F1.6; 0Lux (IR on)					Sub stream2: 1080P/720P/D1(1 ~ 25/30fps)
S/N Ratio		More than 56dB				Bit Rate Control	CBR/VBR H.265/H.264: 256K ~ 8192Kbps, MJPEG: 56K ~
IR Distance		Distance up to 500m (1640ft)				Bit Rate	20480Kbps
IR On/Off Control Au		Auto/N	Auto/Manual			Day/Night	Auto(ICR) / Color / B/W
IR LEDs		Laser r	aser module			Backlight Compensation	BLC / HLC / DWDR
Wiper		Suppo	rt			White Balance	Auto,ATW,Indoor,Outdoor,Manual
DORI Distance						Gain Control	Auto / Manual
			kimity" of distance whi			Noise Reduction	Ultra DNR (2D/3D)
pinpoint the right camera for your sensor specification and lab test re		sult acco				Motion Detection	Support
Detect	Observe	nize and	Recognize	Identify		Region of Interest	Support
3892m(12769ft) 1557m(5108ft		Bft)	778m(2552ft)	389m(1276ft)		Electronic Image Stabilization (EIS)	Support
Lens						Defog	Support
Focal Length		6mm~	6mm~180mm			Digital Zoom	16x
Max. Aperture		F1.6 ~	F1.6 ~ F4.8			Flip	180°
Angle of View		H: 61.2	2° ~ 2.1°			Privacy Masking	Up to 24 areas
Optical Zoom 3		30x	30x			Audio	
Focus Control Au		Auto/N	Auto/Manual			Compression	G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2
Close Focus Distance	е	100mm~ 1000mm				Network	
PTZ						Ethernet	RJ-45 (10Base-T/100Base-TX)
Pan/Tilt Range		Pan: 0° ~ 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,802.1x
Manual Control Speed		Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s Pan: 240° /s; Tilt: 200° /s				Interoperability	ONVIF, PSIA, CGI
Presets						Streaming Method	Unicast / Multicast
Presets		5 Dattern & Tour Auto Dan Auto Scop				Max. User Access	20 users
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan				Edge Storage	NAS (Network Attached Storage),Local PC for
Speed Setup		Human-oriented focal Length/ speed adaptation Auto restore to previous PTZ and lens status after				Web Viewer	instant recording, Micro SD card 128GB
Power up Action		power failure Activate Preset/ Scan/ Tour/ Pattern if there is no					IE, Chrome, Firefox, Safari
Idle Motion		command in the specified period				Management Software	Smart PSS, DSS
Protocol		DH-SD, Pelco-P/D (Auto recognition)				Smart Phone	IOS, Android
Intelligence						Certifications	
Auto Tracking		Support				Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014
11/6		Tripwire, Intrusion, Abandoned/Missing, Face					



IVS

Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map

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:







PFA111 Mount Adapter



AC24V/3A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount

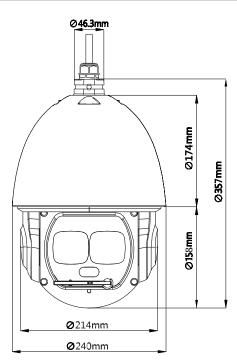


PFB303S Parapet Mount

		Turapet Would	
Ceiling Mount		Junction Mount	
PFA111 + PFB300C	PI	FA111 + PFB303W + PFA120	
Power Box Mount		Pole Mount	
PFA111 + PFB303W + PFA1	40 PI	FA111 + PFB303W + PFA150	
Corner Mount		Parapet Mount	
PFA111 + PFB303W + PFA	151	PFA111+ PFB303S	



Dimensions (mm)







Rev 001.001