

DH-SD6AL230F-HNI

2MP 30x Starlight Laser PTZ Network Camera



- · 1/1.9" 2Megapixel CMOS
- · Powerful 30x optical zoom
- · Starlight technology
- Max. 25/30fps@1080P and 50/60fps@720P
- · Auto tracking and IVS
- · Support Hi-PoE
- · IR distance up to 500m
- · IP67











System Overview

Ultra series adopts top-notch DSP and advanced image sensor, which can offer excellent image performance for different environmental applications. The series supports UHD image up to 4K resolution, large optical zoom up to 48x, ultra starlight and WDR, powerful pan/tilt/zoom performance and etc. It also supports smart plan, such as IVS, face detection, heatmap and auto-tracking. The monitoring range is larger than before, the series is ideal for use in city and perimeter surveillance. Meanwhile, it is fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard. The ultra series offers industry-leading IR capability of more than 200m.

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 0.002 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.

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 ±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 Spec	ification			Video	0	
Camera				Com	pression	H.264 / MJPEG
Image Sensor	ensor 1/1.9" CMOS			Strea	aming Capability	3 Streams
Effective Pixels	19	1920(H) x 1080(V), 2 Megapixels		Reso	lution	1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)
RAM/ROM 1024M/64M				Main stream: 1080P(1~25/30fps), 720P(1~50/60fps)		
Scanning System		Progressive		Fram	ne Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed		1/1s~1/300,000s				Sub stream2: 1080P/720P/D1/CIF (1 ~ 25/30fps)
Minimum Illumination Color: 0.002Lux@F1.5; 0Lux@F1		9F1.5 (IR on)	Bit R	ate Control	CBR/VBR	
S/N Ratio More than 56dB		ore than 56dB	1 56dB		ate	H.264: 448K~8192Kbps, MJPEG: 4096K~20480Kbps
IR Distance		Distance up to 500m (1640ft)			Night	Auto(ICR) / Color / B/W
IR On/Off Control		Auto/Manual			light Compensation	BLC / HLC / WDR(120dB)
IR LEDs L		ser module			e Balance	Auto,ATW,Indoor,Outdoor,Manual
Lens						
Focal Length 6mm ²		nm~180mm			Control	Auto / Manual
Max. Aperture F1.5°		.5~ F4.3			e Reduction	Ultra DNR (2D/3D)
Angle of View H: 61		H: 61.2° ~ 2.1°			on Detetion	Support
Optical Zoom	30	30x			on of Interest ronic Image	Support
Focus Control	Au	Auto/Manual			ilization (EIS)	Support
Close Focus Distance	10	100mm~ 1000mm		Defo	g	Support
DORI Distance				Digita	al Zoom	16x
		proximity" of distance which		Flip		180°
sensor specification a	and lab test result	according to EN 62676-4 w and Identify respectively.		Priva	cy Masking	Up to 24 areas
Detect	Observe	Recognize Identify		Audio	0	
1920m(6299ft) 768m(2520ft)		384m(1260ft)	192m(630ft)	Com	pression	G.711a/G.711mu/G.726/AAC
PTZ				Netw	vork	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180°		Ethe	rnet	RJ-45 (10/100Base-T)
		Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		Proto	ocol	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
Preset Speed	Pa	Pan: 240° /s; Tilt: 200° /s		Inter	operability	ONVIF, PSIA, CGI
Presets		300		Strea	nming 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		Edgo	Storage	NAS (Network Attached Storage), Local PC for
Power up Action		Auto restore to previous PTZ and lens status after power failure			-	instant recording, Micro SD card 128GB
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Viewer agement Software	IE, Chrome, Firefox, Safari Smart PSS, DSS
Protocol		DH-SD, Pelco-P/D (Auto recognition)			rt Phone	IOS, Android
Intelligence					fications	ico, initialota
Auto Tracking		Support		Certi	neadons	CE: ENICEO22/ENICEO24/ENICO420-4
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection		Certi	Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1

Interface

Video Interface	1
Audio Interface	1/1
RS485	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 90% 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 Description Type Part Number 2MP 30x Starlight Laser PTZ DH-SD6AL230F-HNI Network Camera, WDR, PAL 2MP 30x Starlight Laser PTZ DH-SD6AL230FN-HNI Network Camera, WDR, NTSC 2MP PTZ Camera 2MP 30x Starlight Laser PTZ SD6AL230F-HNI Network Camera, WDR, PAL 2MP 30x Starlight Laser PTZ SD6AL230FN-HNI Network Camera, WDR, NTSC PFB303W Wall Mount PFA111 Mount Adapter AC24V/3A Power Supply 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 Supply

Optional:



PFA140 Power box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

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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)



