

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

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, this series provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with its 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 for variable lighting conditions during the day and True WDR for applications with direct sunlight or glare.

Functions

Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.002 lux).

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection

Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protection against the camera and its structure from the effects of 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			
Camera			
Image Sensor	1/1.9" CMOS		
Effective Pixels	1920(H) x 1080(V), 2 Megapixels		
RAM/ROM	1024M/64M		
Scanning System	Progressive		
Electronic Shutter Speed	1/1s~1/300,000s		
Minimum Illumination	Color: 0.002Lux@F1.5; 0Lux@F1.5 (IR on)		
S/N Ratio	More than 56dB		
IR Distance	Distance up to 500m (1640ft)		
IR On/Off Control	Auto/Manual		
IR LEDs	Laser module		
Lens			
Focal Length	6mm~180mm		
Max. Aperture	F1.5~ F4.3		
Angle of View	H: 61.2° ~ 2.1°		
Optical Zoom	30x		
Focus Control	Auto/Manual		
Close Focus Distance	100mm~ 1000mm		
DORI Distance			
*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	Identify
1920m(6299ft)	768m(2520ft)	384m(1260ft)	192m(630ft)
PTZ			
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°,auto flip 180°		
Manual Control Speed	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		
Preset Speed	Pan: 240° /s; Tilt: 200° /s		
Presets	300		
PTZ Mode	5 Pattern, 8 Tour, Auto Pan ,Auto Scan		
Speed Setup	Human-oriented focal Length/ speed adaptation		
Power up Action	Auto restore to previous PTZ and lens status after power failure		
Idle Motion	Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		
Protocol	DH-SD, Pelco-P/D (Auto recognition)		
Intelligence			
Auto Tracking	Support		
IVS	Tripwire, Intrusion,Abandoned/Missing, Face Detection		

Video		
Compression		H.264 / MJPEG
Streaming Capability		3 Streams
Resolution		1080P(1920×1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)
Frame Rate	Main stream	1080P(1~25/30fps), 720P(1~50/60fps)
	Sub stream1	D1/CIF(1 ~ 25/30fps)
	Sub stream2	1080P/720P/D1/CIF (1 ~ 25/30fps)
Bit Rate Control		CBR/VBR
Bit Rate		H.264: 448K~8192Kbps, MJPEG: 4096K~20480Kbps
Day/Night		Auto(ICR) / Color / B/W
Backlight Compensation		BLC / HLC / WDR(120dB)
White Balance		Auto,ATW,Indoor,Outdoor,Manual
Gain Control		Auto / Manual
Noise Reduction		Ultra DNR (2D/3D)
Motion Detetion		Support
Region of Interest		Support
Electronic Image Stabilization (EIS)		Support
Defog		Support
Digital Zoom		16x
Flip		180°
Privacy Masking		Up to 24 areas
Audio		
Compression		G.711a/G.711mu/G.726/AAC
Network		
Ethernet		RJ-45 (10/100Base-T)
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
Interoperability		ONVIF, PSIA, CGI
Streaming Method		Unicast / Multicast
Max. User Access		20 users
Edge Storage		NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB
Web Viewer		IE, Chrome, Firefox, Safari
Management Software		Smart PSS, DSS
Smart Phone		IOS, Android
Certifications		
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	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	Φ240(mm) x 357(mm)
Net Weight	6.75kg(14.88lb)
Gross Weight	10.5kg(23.15lb)

Ordering Information

Type	Part Number	Description
2MP PTZ Camera	DH-SD6AL230F-HNI	2MP 30x Starlight Laser PTZ Network Camera, WDR, PAL
	DH-SD6AL230FN-HNI	2MP 30x Starlight Laser PTZ Network Camera, WDR, NTSC
	SD6AL230F-HNI	2MP 30x Starlight Laser PTZ Network Camera, WDR, PAL
	SD6AL230FN-HNI	2MP 30x Starlight Laser PTZ Network Camera, WDR, NTSC
Accessories	PFB303W	Wall Mount
	PFA111	Mount Adapter
	AC24V/3A	Power Supply
	PFA140	Power box
	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet mount

Accessories

Included:


PFB303W
Wall Mount

PFA111
Mount Adapter

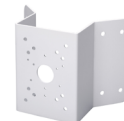
AC24V/3A
Power Supply

Optional:


PFA140
Power box

PFB300C
Ceiling Mount

PFA120
Junction Box

PFA150
Pole Mount

PFA151
Corner Mount

PFB303S
Parapet Mount

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)

