

# 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, 25/30/50/60fps@720P
- $\cdot\,$  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 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 in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

#### 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  $\pm 25\%$  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.



# Ultra Series | DH-SD6AL230F-HNI

#### **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~1/30,000s
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	Ра		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180°		
Manual Control Spee	rol Speed Pan: C		Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		
Preset Speed	Pan: 2		Pan: 240° /s; Tilt: 200° /s		
Presets	300		300		
PTZ Mode	5 Pat		9 Pattern, 8 Tour, Auto Pan ,Auto Scan		
Speed Setup		Human-oriented focal Length/ speed adaptation			
		Auto restore to previous PTZ and lens status after power failure			
Idle Motion	100		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		
Protocol	DH-SI		H-SD, Pelco-P/D (Auto recognition)		
Intelligence					
Auto Tracking	king Sup		Support		
1// 5			ipwire, Intrusion,Abandoned/Missing, Face etection, Heat Map		

CompressionH.264 / MJPEGStreaming Capability3 StreamsResolution1080P(1920-1080)/720P(1280-720)/D1/704-576/ 704-480)/CIF(352×288/352×240)Presolution1080P(1920-1080)/720P(1280-720)/D1/704-576/ 704-480)/CIF(352×288/352×240)PresolutionSub stream1: 080P(1-25/30fps), 720P(1-50/60fps)Bit RateMain stream: 1080P(1-25/30fps), 720P(1-50/60fps)Bit RateCBR/VBRBit RateH.264: 448K-8192Kbps, MJPEG: 4096K-20480KbpsDay/NightAuto(ICR) / Color / B/WBacklight CompensationBLC / HLC / WDR(120dB)White BalanceAuto,ATW,Indoor,Outdoor,ManualGain ControlAuto,ATW,Indoor,Outdoor,ManualNoise ReductionUltra DNR (2D/30)Motion DetetionSupportRegion of InterestSupportElectronic Image Stabilization (CIS)SupportDigital Zoom16xFlip180°Privacy MaskingUp to 24 areasAudioCompressionCompressionG.711a/G.711mu/G.726/AACNetworkInteroperabilityProtocolUnicast / MulticastInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastKau, User Access20 usersEdge StorageLocal PC for instant recording, Micro SD card 128GBWeb ViewerE, Chrome, Firefox, SafariManagement SoftwareSing ArboidSmart PhoneIOS, AndroidCertificationsCE: ENS50322/ENS5024/ENS0130-4 FC: Part15 subpart8, ANSI C63.4- 2014	Video	
Resolution       1080P(1920+1080)/720P(1280+720)/D1(704+576/         Prame Rate       Main stream: 1080P(1-25/30(ps), 720P(1-50/60(ps))         Sub stream1: D1/CIF(1 ~ 25/30(ps))       Sub stream1: D1/CIF(1 ~ 25/30(ps))         Bit Rate       CBR/VBR         Bit Rate       H.264: 448K~8192K0ps, MIPEG: 4096K~20480K0ps         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         Electronic (Enage       Support         Digital Zoom       16x         Flip       180°         Privacy Masking       Up to 24 areas         Audio       Compression         Compression       G.711a/G.711mu/G.726/AAC         Protocol       IPv4/IPv6,HTTP,HTTPS,SLTCP/IP, UDP UPNP, ICMP,IGMP,SMMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPC,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x         Interoperability       ONVIF, PSIA, CGI         Streaming Method       Unicast / Multicast         Max. User Access       20 users         Edge Storage       Local PC for instant recording, Micro SD card 128GB         Web Viewer       IE,	Compression	H.264 / MJPEG
Resolution         704×480)/CIF(352×288/352×240)           Frame Rate         Main stream: 1080P(1°25/30(ps), 720P(1°50/60(ps))           Sub stream1: D1/CIF(1 ~ 25/30(ps))         Sub stream2: 1080P/720P/D1/CIF (1 ~ 25/30(ps))           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           Stabilization (EIS)         Support           Defog         Support           Digital Zoom         16x           Flip         180°           Privacy Masking         Up to 24 areas           Audio         IPv4/18v6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPP, ICMP,DS,PFDE,DDN,FFTE, IP Filter,QoS,Bonjour,802.1x           Protocol         IPv4/16V6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPP, ICMP,DS,PFDE,DDN,FFTE, IP Filter,QoS,Bonjour,802.1x           Interoperability         ONVIF, PSIA, CGI           Streaming Method         Unicast / Multicast           Max. User Access         20 users           Edge Storage         Local	Streaming Capability	3 Streams
Frame Rate         Sub stream1: 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           Stabilization (EIS)         Support           Digital Zoom         16x           Flip         180°           Privacy Masking         Up to 24 areas           Audio         Compression           Compression         G.711a/G.711mu/G.726/AAC           Protocol         IP44/IP64,FTTPHTTP5,SSLTCP/IP, UDP,UPnP, DDCP, DNS,PPPOE,DDNS,PTP, DDCP, DNS,PTP, DDCP, DNS	Resolution	
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,ATW,Indoor,Outdoor,Manual           Noise Reduction         Ultra DNR (2D/3D)           Motion Detetion         Support           Region of Interest         Support           Defog         Support           Digital Zoom         16x           Flip         180°           Privacy Masking         Up to 24 areas           Audio         Interest, IPV4/IPV6,MTTP,BATPS,SSLTCP/IP, UDPUPNP           Ethernet         RJ-45 (10Base-T/100Base-TX)           Protocol         Unicast / Multicast           Interoperability         ONVIF, PSIA, CGI           Streaming Method         Unicast / Multicast           Max, User Access         20 users           Edge Storage         Local PC for instant recording, Micro SD card 128GB           Web Viewer         IE, Chrome, Firefox, Safari           Management Software         Smart PSS, DSS           Smart Phone<		Main stream: 1080P(1~25/30fps), 720P(1~50/60fps)
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       RI-45 (10Base-T/100Base-TX)         Protocol       R-45 (10Base-T/100Base-TX)         Protocol       Interoperability         ONVIF, PSIA, CGI       Streaming Method         Max. User Access       20 users         Edge 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	Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Bit RateH.264: 448K~8192Kbps, MJPEG: 4096K~20480KbpsDay/NightAuto(ICR) / Color / B/WBacklight CompensationBLC / HLC / WDR(120dB)White BalanceAuto, ATW,Indoor,Outdoor,ManualGain ControlAuto / ManualNoise ReductionUltra DNR (2D/3D)Motion DetetionSupportRegion of InterestSupportElectronic Image Stabilization (EIS)SupportDefogSupportDigital Zoom16xFlip180°Privacy MaskingUp to 24 areasAudioCompressionCompressionG.711a/G.711mu/G.726/AACProtocolIPv4/IPv6,HTTP,HTTP,SSL,TCP/IP, UDP,UPnP, ICMP/IGMP,SMMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPDE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1xInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageLocal PC for instant recording, Micro SD card 128GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSSSmart PhoneIOS, AndroidCertificationsCE: ENS5032/ENS5024/ENS0130-4		Sub stream2: 1080P/720P/D1/CIF (1 ~ 25/30fps)
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EthernetRJ-45 (10Base-T/100Base-TX)EthernetIPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1xInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageLocal PC for instant recording, Micro SD card 128GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSSSmart PhoneIOS, AndroidCertificationsCE: EN55032/EN55024/EN50130-4	Compression	G.711a/G.711mu/G.726/AAC
ProtocolIPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1xInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageLocal PC for instant recording, Micro SD card 128GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSSSmart PhoneIOS, AndroidCertificationsCE: EN55032/EN55024/EN50130-4	Network	
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Streaming Method       Unicast / Multicast         Max. User Access       20 users         Edge 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       CE: EN55032/EN55024/EN50130-4	Protocol	ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP,
Max. User Access       20 users         Edge 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       CE: EN55032/EN55024/EN50130-4	Interoperability	ONVIF, PSIA, CGI
Edge 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	Streaming Method	Unicast / Multicast
Web Viewer     IE, Chrome, Firefox, Safari       Management Software     Smart PSS, DSS       Smart Phone     IOS, Android       Certifications       Certifications     CE: EN55032/EN55024/EN50130-4	Max. User Access	20 users
Management Software     Smart PSS, DSS       Smart Phone     IOS, Android       Certifications     CE: EN55032/EN55024/EN50130-4	Edge Storage	Local PC for instant recording, Micro SD card 128GB
Smart Phone     IOS, Android       Certifications     CE: EN55032/EN55024/EN50130-4	Web Viewer	IE, Chrome, Firefox, Safari
Certifications CE: EN55032/EN55024/EN50130-4	Management Software	Smart PSS, DSS
Certifications CE: EN55032/EN55024/EN50130-4	Smart Phone	IOS, Android
	Certifications	
	Certifications	

# Ultra Series | DH-SD6AL230F-HNI

#### 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 $^\sim$ 70°C (-40°F $^\sim$ +158°F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A
Construction	
Casing	Metal
Dimensions	Φ240(mm) x 357(mm)
Net Weight	6.75kg(14.88lb)

10.5kg(23.15lb)

## **Ordering Information**

Gross Weight

Туре	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 Adapter
	PFA140	Power box
	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet mount

### Accessories

#### Included:

Optional:



Wall Mount

PFA140

Power box

PFA150

Pole Mount



PFA111

Mount Adapter



AC24V/3A Power Supply







PFB300C Ceiling Mount









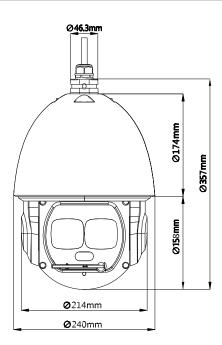
PFA151 Corner Mount

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	

## Ultra Series | DH-SD6AL230F-HNI

## Dimensions (mm)





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