

DH-SD59430U-HNI

4MP 30x IR PTZ Network Camera



- · 1/3" 4Megapixel CMOS
- · Powerful 30x optical zoom
- · H.265 Encoding
- · Max. 25/30fps@4M/3M, 25/30/50/60fps@1080P
- · Auto-tracking and IVS
- · Support PoE+
- · IR distance up to 100m
- · IP66



System Overview

Pro series adopts powerful DSP and image sensor, which can offer great image performance. It supports excellent optical zoom with autofocus and provides highly detailed zoomed-in views. With upgraded smart H.265 encoding technology, this series achieves high-efficient video stream compression, and enhance the monitoring system by saving network bandwidth and storage capacity. Suitable for both indoor and outdoor environment, this series enables 360° endless pan for wide area coverage. The pro series offers industry-leading IR capability of up to 200m.

Functions

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.

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.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40°C ~ 70°C (-40°F ~ +158°F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 6KV 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.





https://boutique.idms.fr

Pro Series | DH-SD59430U-HNI

Technical Specification

Camera

Image Sensor	1/3" CMOS
Effective Pixels	2592(H) x 1520(V), 4 Megapixels
RAM/ROM	1024M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.05Lux@F1.6; 0Lux@F1.6(IR on)
S/N Ratio	More than 55dB
IR Distance	Distance up to 100m (328ft)
IR On/Off Control	Auto/Manual
IR LEDs	4
Lens	
Focal Length	4.5mm~135mm
Max. Aperture	F1.6 ~ F4.4
Angle of View	H: 60° ~ 2.2°
Optical Zoom	30x
Focus Control	Auto/Manual

DORI Distance

Close Focus 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.

100mm~ 1000mm

Detect	Observe		Recognize	Identify	
2700m(8858ft)	1080m(3543ft)		540m(1772ft)	270m(886ft)	
PTZ					
Pan/Tilt Range	ilt Range		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°,auto flip 180°		
Manual Control Speed		Pan: 0.1° ~300° /s; Tilt: 0.1° ~200° /s			
Preset Speed		Pan: 400° /s; Tilt: 300° /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			
Intelligence					
Auto Tracking		Support			
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection			

Video H.265+/H.265/H.264+/H.264 Compression Streaming Capability 3 Streams 4M(2592×1520)/3M(2304×1296)/1080P(1920× Resolution 1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/ 720P(1~50/60fps) Frame Rate Sub stream1: D1/CIF(1 ~ 25/30fps) Sub stream2: 4M/1080P/1.3M/720P/D1/CIF (1~25/30fps) Bit Rate Control CBR/VBR H.265/H.264: 448K ~ 8192Kbps Bit Rate Auto(ICR) / Color / B/W Day/Night **Backlight Compensation** BLC / HLC / WDR (120dB) White Balance Auto,ATW,Indoor,Outdoor,Manual Gain Control Auto / Manual Ultra DNR (2D/3D) Noise Reduction Motion Detetion Support Region of Interest Support Electronic Image Support Stabilization (EIS) Defog Support **Digital Zoom** 16x Flip 180° Privacy Masking Up to 24 areas Audio G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ Compression MPEG2-L2 Network Ethernet RJ-45 (10Base-T/100Base-TX) IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, Protocol ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x Interoperability ONVIF, PSIA, CGI Unicast / Multicast Streaming Method Max. User Access 20 users NAS (Network Attached Storage), Local PC for Edge Storage instant recording, Micro SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Smart PSS, DSS Management Software Smart Phone IOS, Android Certifications CE: EN55032/EN55024/EN50130-4 Certifications FCC: Part15 subpartB,ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1



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Interface

interface			
Video Interface	N/A		
Audio Interface	1/1		
RS485	N/A		
Alarm I/O	2/1		
Electrical			
Power Supply	AC24V/3A(±10%), PoE+(802.3at)		
Power Consumption	13W,23W (IR on)		
Environmental			
Operating Conditions	-40°C \simeq 70°C (-40°F \simeq +158°F) / Less than 90% RH		
Ingress Protection	IP66		
Vandal Resistance	N/A		
Construction			
Casing	Metal		
Dimensions	Φ186(mm) x 309(mm)		
Net Weight	3.5kg(7.72lb)		

6.8kg(14.99lb)

Ordering Information

Gross Weight

Туре	Part Number	Description
4MP PTZ Camera	DH-SD59430U-HNI	4MP 30x IR PTZ Network Camera, WDR, PAL
	DH-SD59430UN-HNI	4MP 30x IR PTZ Network Camera, WDR, NTSC
	SD59430U-HNI	4MP 30x IR PTZ Network Camera, WDR, PAL
	SD59430UN-HNI	4MP 30x IR PTZ Network Camera, WDR, NTSC
Accessories	PFB300S	Wall Mount
	PFA110	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:

Optional:







AC24V/3A

Power Supply

PFA110 Mount Adapter







PFA120 Junction Box



PFA140

Power box

PFA150

Pole Mount



PFA151

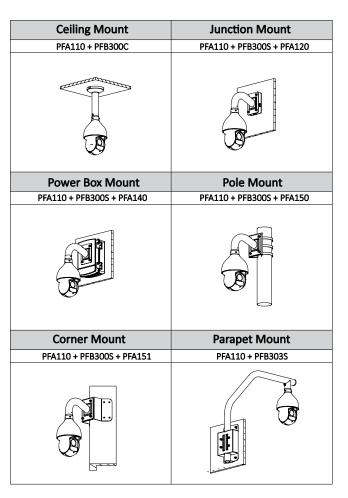
Corner Mount

PFB300C

Ceiling Mount

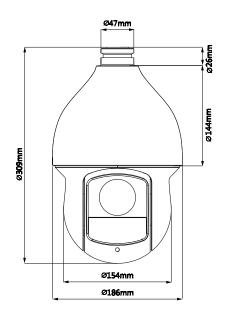


PFB303S Parapet Mount





Dimensions (mm)





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