

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 \sim 70°C (-40°F \sim +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.



Technical Spec	cification			Video	
Camera		Compression	H.265+/H.265/H.264+/H.264		
Image Sensor	1/3"	1/3" CMOS		Streaming Capability	3 Streams
Effective Pixels		!(H) x 1520(V), 4 Megapi:	xels	Resolution	4M(2592×1520)/3M(2304×1296)/1080P(1920× 1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)
RAM/ROM	RAM/ROM 1024M/128M Scanning System Progressive			Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/720P(1~50/60fps)	
				Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Sp		1s~1/300,000s lor: 0.05Lux@F1.6; 0Lux@F1.6(IR on)			Sub stream2: 4M/1080P/1.3M/720P/D1/CIF
Minimum Illuminati		- , -	F1.6(IK ON)	27.2	(1~25/30fps)
S/N Ratio			Bit Rate Control	CBR/VBR	
IR Distance Distance up to 100m (328ft)		Bit Rate	H.265/H.264: 448K ~ 8192Kbps		
IR On/Off Control Auto/Manual		Day/Night	Auto(ICR) / Color / B/W		
IR LEDs 4			Backlight Compensation	BLC / HLC / WDR (120dB)	
Lens				White Balance	Auto,ATW,Indoor,Outdoor,Manual
Focal Length 4.5mm~135m		nm~135mm		Gain Control	Auto / Manual
Max. Aperture F1.6 ~		1.6 ~ F4.4		Noise Reduction	Ultra DNR (2D/3D)
Angle of View	H: 60	H: 60° ~ 2.2°		Motion Detetion	Support
Optical Zoom	30x			Region of Interest	Support
Focus Control	Auto	Auto/Manual		Electronic Image Stabilization (EIS)	Support
Close Focus Distance	e 100r	100mm~ 1000mm		Defog	Support
DORI Distance				Digital Zoom	16x
		oximity" of distance whi		Flip	180°
sensor specification	and lab test result ac	The DORI distance is cal cording to EN 62676-4 w		Privacy Masking	Up to 24 areas
Detect	Observe	d Identify respectively. Recognize	Identify	Audio	
				Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/
2700m(8858ft)	1080m(3543ft)	540m(1772ft)	270m(886ft)	·	MPEG2-L2
PTZ				Network	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°		Ethernet	RJ-45 (10/100Base-T)
Manual Control Spe		Pan: 0.1° ~300° /s; Tilt: 0.1° ~200° /s Pan: 400° /s; Tilt: 300° /s		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
Presets	300	300		Interoperability	ONVIF, PSIA, CGI
PTZ Mode	5 Pa	5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Streaming Method	Unicast / Multicast
Speed Setup	Hum	Human-oriented focal Length/ speed adaptation		Max. User Access	20 users
Power up Action		Auto restore to previous PTZ and lens status after power failure		Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Web Viewer	IE, Chrome, Firefox, Safari
Protocol		DH-SD		Management Software	Smart PSS, DSS
Intelligence	511.5			Smart Phone	IOS, Android
		Support		Certifications	
IVS		Support Tripwire, Intrusion, Abandoned/Missing, Face Detection		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	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 ~ 70°C (-40°F ~ +158°F) / Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф186(mm) x 309(mm)
Net Weight	3.5kg(7.72lb)
Gross Weight	6.8kg(14.99lb)

Ordering Information Туре Part Number Description 4MP 30x IR PTZ Network DH-SD59430U-HNI Camera, WDR, PAL 4MP 30x IR PTZ Network DH-SD59430UN-HNI Camera, WDR, NTSC 4MP PTZ Camera 4MP 30x IR PTZ Network SD59430U-HNI Camera, WDR, PAL 4MP 30x IR PTZ Network SD59430UN-HNI Camera, WDR, NTSC PFB300S Wall Mount PFA110 Mount Adapter AC24V/3A **Power Supply** PFA140 Power box PFB300C Accessories Ceiling Mount PFA120 Junction Box PFA150 Pole Mount PFA151 Corner Mount PFB303S Parapet mount

Accessories

Included:



PFB300S Wall Mount



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	
PFA110 + PFB300C	PFA110 + PFB300S + PFA120	
Power Box Mount	Pole Mount	
PFA110 + PFB300S + PFA140	PFA110 + PFB300S + PFA150	
Corner Mount	Parapet Mount	
	PFA110 + PFB303S	
PFA110 + PFB300S + PFA151	PFA110 + PFB303S	

Dimensions (mm)



