

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

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, the camera can provide large monitoring range and great detail. It is equipped with quick and smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

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.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

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) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Spe	cification			Auto Tracking	Support
Technical Specification Camera		IVS	Tripwire, Intrusion, Abandoned/Missing		
	1	1/2" CNAOC			
Image Sensor 1/3" CMOS Effective Pixels 2592(H) x 1520(V), 4 Megapixels		Advanced Intelligent Functions	Face Detection, Heat Map		
Effective Pixels			CIS	Video	
RAM/ROM		.024M/128M		Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Scanning System		rogressive		Streaming Capability	3 Streams
Electronic Shutter S		/1s~1/30,000s	0051@51.6.	Resolution	4M(2592×1520)/3M(2304×1296)/1080P(1920× 1080)/720P(1280×720)/D1(704×576/704×480)/
Minimum Illuminat		Color: 0.05Lux@F1.6; B/W: 0. ILux@F1.6 (IR on)	.003Lux@F1.0,		CIF(352×288/352×240) Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/
IR Distance	D	Distance up to 100m (384ft)			720P(1~50/60fps)
IR On/Off Control	А	Auto/Manual		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR LEDs	4				Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)
Lens				Bit Rate Control	CBR/VBR
Focal Length	4	.5mm~135mm		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Max. Aperture	F	1.6 ~ F4.4		Day/Night	Auto(ICR) / Color / B/W
Angle of View	н	H: 60° ∼ 2.2°		Backlight Compensation	BLC / HLC / WDR (120dB)
Optical Zoom	3	0x		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Focus Control	А	uto/Manual		Gain Control	Auto / Manual
Close Focus Distanc	ce 1	00mm~ 1000mm		Noise Reduction	Ultra DNR (2D/3D)
DORI Distance				Motion Detection	Support
		I proximity" of distance whi		Region of Interest	Support
sensor specification	n and lab test result	needs. The DORI distance is calculated based on sult according to EN 62676-4 which defines the nize and Identify respectively.		Electronic Image Stabilization (EIS)	Support
Detect	Observe	Recognize	Identify	Defog	Support
2700m(8858ft)	1080m(3543ft)	540m(1772ft)	270m(886ft)	Digital Zoom	16x
PTZ				Flip	180°
Pan/Tilt Range	Р	an: 0° ~ 360° endless; Tilt: -1	15° ~ 90°,auto flip 180°	Privacy Masking	Up to 24 areas
Manual Control Spe	eed P	an: 0.1° ~300° /s; Tilt: 0.1° ~	200° /s	Audio	
Preset Speed	P	Pan: 400° /s; Tilt: 300° /s		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
Presets	3	300		Network	
PTZ Mode	5	5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Ethernet	RJ-45 (10Base-T/100Base-TX)
Speed Setup		Human-oriented focal Length/ speed adaptation		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,802.1>
Power up Action Auto restore to previous PTZ and lens status after power failure		Interoperability	ONVIF Profile S&G, API		
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Streaming Method	Unicast / Multicast
Protocol DH-SD		Max. User Access	20 users		
Intelligence				Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Motion detection, Video tampering , Scene		Web Viewer	IE, Chrome, Firefox, Safari		
Event Trigger changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly	Management Software	Smart PSS, DSS, DMSS			

Smart Phone

IOS, Android

Certifications

Cartifications	CE: EN55032/EN55024/EN50130-4
Certifications	FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1

Interface

Video Interface	N/A
RS485	N/A
Audio I/O	1/1
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 $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф186(mm) x 309(mm)
Net Weight	3.9kg(8.60lb)
Gross Weight	7.2kg(15.87lb)

Ordering Information

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

Accessories

Included:



PFB300S Wall Mount



PFA110 Mount Adapter



AC24V/3A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Tole Would	Ter Mount Tarapet Mount
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 + PFB300S + PFA151	PFA110 + PFB303S

Dimensions (mm)



