

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 ±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.



Tro Series Bit 3B33 1300 Till							
Technical Specification				Auto Tracking	Support		
Camera					IVS	Tripwire, Intrusion, Abandoned/Missing	
Image Sensor		1/3" CI	MOS			Advanced Intelligent Functions	Face Detection, Heat Map
Effective Pixels		2592(H) x 1520(V), 4 Megapixels			Video		
RAM/ROM		1024M/128M			Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)	
Scanning System		Progressive			Streaming Capability	3 Streams	
Electronic Shutter Speed		1/1s~1/30,000s				4M(2592×1520)/3M(2304×1296)/1080P(1920×	
Minimum Illumination		Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)			Resolution	1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)	
IR Distance		Distance up to 100m (384ft)			Frame Rate	Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/720P(1~50/60fps)	
IR On/Off Control		Auto/Manual				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	n~135mm			Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Max. Aperture		F1.6 ~ F4.4			Day/Night	Auto(ICR) / Color / B/W	
Angle of View		H: 60° ~ 2.2°			Backlight Compensation	BLC / HLC / WDR (120dB)	
Optical Zoom		30x			White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Focus Control		Auto/Manual			Gain Control	Auto / Manual	
Close Focus Distance	е	100mm~ 1000mm			Noise Reduction	Ultra DNR (2D/3D)	
DORI Distance						Motion Detection	Support
			kimity" of distance which			Region of Interest	Support
		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	Detect Observe		Recognize	Identify		Defog	Support
2700m(8858ft)	1080m(3543f	ft)	540m(1772ft)	270m(886ft)		Digital Zoom	16x
PTZ						Flip	180°
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°			Privacy Masking	Up to 24 areas	
Manual Control Spe	ed	Pan: 0.1° ~300° /s; Tilt: 0.1° ~200° /s			Audio		
Preset Speed		Pan: 400° /s; Tilt: 300° /s			Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2	
Presets		300			Network		
PTZ Mode		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, DRDDE, DDNS, ETP, IB Filter, Ocs. Popilous 200 day	
Power up Action		Auto restore to previous PTZ and lens status after power failure			Interoperability	DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x 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 changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly			Web Viewer	IE, Chrome, Firefox, Safari	
Event Trigger					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

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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



PFA151



PFB303S Parapet Mount

Pole Mount	Corner Moun	t Par	Parapet Mount	
Ceiling Mour	nt	Junction Mo	ount	
PFA110 + PFB300	С	PFA110 + PFB300S	+ PFA120	
	A			
Power Box Mo	unt	Pole Mou	int	
PFA110 + PFB300S + F	PFA140	PFA110 + PFB300S	+ PFA150	
Corner Moun	t	Parapet Mo	ount	
PFA110 + PFB300S +	PFA151	PFA110 + PFB	303S	

Dimensions (mm)



