

# 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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Spe	cification			Video	
Camera		Compression	H.265+/H.265/H.264+/H.264		
Image Sensor 1/3" CMOS			Streaming Capability	3 Streams	
		92(H) x 1520(V), 4 Megap	ixels	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 1		24M/128M			Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/
Scanning System		Progressive			720P(1~50/60fps)
Electronic Shutter S	Speed 1/2	1/1s~1/30,000s		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Minimum Illuminat	'ion	Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6;		Dit Date Cantual	Sub stream2: 4M/1080P/1.3M/720P/D1/CIF (1~25/30fps)
S/N Ratio		More than 55dB		Bit Rate Control	CBR/VBR
IR Distance	Dis	Distance up to 100m (328ft)		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control	Au	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	45	mm~135mm		Gain Control	Auto / Manual
Max. Aperture		6 ~ F4.4		Noise Reduction	Ultra DNR (2D/3D)
				Motion Detection	Support
Angle of View		60° ~ 2.2°		Region of Interest	Support
Optical Zoom		30x		Electronic Image	Support
Focus Control		Auto/Manual		Stabilization (EIS)  Defog	Support
Close Focus Distance		100mm~ 1000mm		Digital Zoom	16x
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		Flip	180°		
•		according to EN 62676-4 vand Identify respectively.	which defines the	Privacy Masking	Up to 24 areas
Detect	Observe	Recognize	Identify	Audio	
2700m(8858ft)	1080m(3543ft)	540m(1772ft)	270m(886ft)	Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
PTZ				Network	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°		Ethernet	RJ-45 (10Base-T/100Base-TX)
Manual Control Speed		Pan: 0.1° ~300° /s; Tilt: 0.1° ~200° /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,802.1
Preset Speed		Pan: 400° /s; Tilt: 300° /s		Interoperability	ONVIF, PSIA, CGI
Presets		300		Streaming Method	Unicast / Multicast
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Max. User Access	20 users
Speed Setup		Human-oriented focal Length/ speed adaptation			NAS (Network Attached Storage),Local PC for
Power up Action		Auto restore to previous PTZ and lens status after power failure		Edge Storage Web Viewer	instant recording, Micro SD card 128GB  IE, Chrome, Firefox, Safari
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Management Software	Smart PSS, DSS
Protocol		DH-SD		Smart Phone	IOS, Android
Intelligence				Certifications	2-7,
Auto Tracking		Support		Certifications	CE: EN55032/EN55024/EN50130-4
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map			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 ~ 70°C (-40°F ~ +158°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	N/A

# Construction

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

Ordering Information		
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
	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



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

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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 + PFB300S + PFA151	PFA110 + PFB303S

# Dimensions (mm)



