

# 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 150m
- · 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 Specification				Auto Tracking	Support
Camera		IVS	Tripwire, Intrusion, Abandoned/Missing		
Image Sensor	1/3	1/3" CMOS		Advanced Intelligent Functions	Face Detection, Heat Map
Effective Pixels	25	2592(H) x 1520(V), 4 Megapixels		Video	
RAM/ROM	10	24M/128M		Compression	H.265+/H.265/H.264+/H.264
Scanning System	Pro	ogressive		Streaming Capability	3 Streams
Electronic Shutter Sp	peed 1/3	1s~1/30,000s			4M(2592×1520)/3M(2304×1296)/1080P(1920×
Minimum Illuminati		lor: 0.05Lux@F1.6; B/W: ( ux@F1.6 (IR on)	).005Lux@F1.6;	Resolution	1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)
S/N Ratio	Mo	ore than 55dB			Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/720P(1~50/60fps)
IR Distance	Dis	Distance up to 150m (492ft)		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR On/Off Control	Au	to/Manual			Sub stream2: 4M/1080P/1.3M/720P/D1/CIF (1~25/30fps)
IR LEDs	4			Bit Rate Control	CBR/VBR
Lens				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Focal Length	4.5	imm~135mm		Day/Night	Auto(ICR) / Color / B/W
Max. Aperture	F1.	6 ~ F4.4		Backlight Compensation	BLC / HLC / WDR (120dB)
Angle of View	H:	60° ~ 2.2°		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Optical Zoom	30:	x		Gain Control	Auto / Manual
Focus Control	Au	to/Manual		Noise Reduction	Ultra DNR (2D/3D)
Close Focus Distance	10	0mm~ 1000mm		Motion Detection	Support
DORI Distance				Region of Interest	Support
*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		Electronic Image Stabilization (EIS)	Support		
		according to EN 62676-4 v and Identify respectively.	vhich defines the	Defog	Support
Detect	Observe	Recognize	Identify	Digital Zoom	16x
2700m(8858ft)	1080m(3543ft)	540m(1772ft)	270m(886ft)	Flip	180°
PTZ				Privacy Masking	Up to 24 areas
Pan/Tilt Range	Pa	n: 0° ~ 360° endless; Tilt: -	15° ~ 90°,auto flip 180°	Audio	
Manual Control Spec	ed Par	n: 0.1° ~300° /s; Tilt: 0.1° ′	~200° /s	Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
Preset Speed	Pai	n: 400° /s; Tilt: 300° /s		Network	
Presets		300		Ethernet	RJ-45 (10Base-T/100Base-TX)
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,
Speed Setup		Human-oriented focal Length/ speed adaptation		Interoperability	DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1  ONVIF Profile S&G, API
Power up Action		Auto restore to previous PTZ and lens status after power failure		Streaming Method	Unicast / Multicast
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Max. User Access	20 users
Protocol DH-SD		Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB		
Intelligence				Web Viewer	IE, Chrome, Firefox, Safari
Motion detection, Video tampering, Scene 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)



