

# DH-SD59230U-HNI

2MP 30x Starlight IR PTZ Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 30x optical zoom
- · Starlight technology
- H.265 Encoding
- · Max. 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, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

#### **Functions**

# **Starlight Technology**

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

## **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 to +70 °C (-40 °F to +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

This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of 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 1/2.8" STARVIS™ CMOS		Advanced Intelligent Functions	Face Detection, Heat Map		
Effective Pixels 1920(H) x 1080(V), 2 Megapixels		Video			
RAM/ROM 1024M/128M			Compression	H.265+/H.265/H.264+/H.264	
Scanning System	Р	Progressive		Streaming Capability	3 Streams
Electronic Shutter Speed 1/1s~1/30,000s		Resolution	1080P(1920×1080)/720P(1280×720)/		
Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)		resolution	D1(704×576/704×480)/CIF(352×288/352×240)  Main stream: 1080P/1.3M/ 720P(1~50/60fps)		
S/N Ratio More than 55dB			Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)	
IR Distance	C	Distance up to 150m (492ft)		Frame Rate	Sub stream2: 1080P/1.3M/720P/D1/CIF
IR On/Off Control	А	Auto/Manual			(1~25/30fps)
IR LEDs	4	ı		Bit Rate Control	CBR/VBR
Lens				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Focal Length	4	I.5mm~135mm		Day/Night	Auto(ICR) / Color / B/W
Max. Aperture	F	:1.6 ~ F4.4		Backlight Compensation	BLC / HLC / WDR (120dB)
				White Balance	Auto, ATW, Indoor, Outdoor, Manual
Angle of View H: 67.8° ~ 2.4°			Gain Control	Auto / Manual	
Optical Zoom 30x			Noise Reduction	Ultra DNR (2D/3D)	
Focus Control Auto/Manual			Motion Detection	Support	
Close Focus Distance 100mm~ 1000mm			Region of Interest	Support	
DORI Distance		uich maker it easy to	Electronic Image Stabilization (EIS)	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 sensor specification and lab test result according to EN 62676-4 which defines the		alculated based on	Defog	Support	
		e and Identify respectively.	anner dennes the	Digital Zoom	16x
Detect	Observe	Recognize	Identify	Flip	180°
1862m(6109ft)	744m(2441ft)	372m(1220ft)	186m(610ft)	Privacy Masking	Up to 24 areas
PTZ				Audio	
Pan/Tilt Range Pan: 0° ~ 360°		Pan: 0° ~ 360° endless; Tilt:		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
Manual Control Speed		Pan: 0.1° ~300° /s; Tilt: 0.1° ~200° /s		Network	
Preset Speed		Pan: 400° /s; Tilt: 300° /s		Ethernet	RJ-45 (10Base-T/100Base-TX)
		300 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,
		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		Streaming Method	Unicast / Multicast
		power failure  Activate Preset/ Scan/ Tour/ Pattern if there is no		Max. User Access	20 users
command in the specified period			Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
Protocol DH-SD		Web Viewer	IE, Chrome, Firefox, Safari		
Intelligence				Web viewei	12) 6111 6111 6) 1 11 61 6 11 61 61 61 61 61 61 61 61 61
Intelligence	N	Motion detection, Video tar	mpering . Scene	Management Software	Smart PSS, DSS, DMSS

## Certifications

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
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	3.9kg(8.60lb)
Gross Weight	7.2kg(15.87lb)

# **Ordering Information**

Туре	Part Number	Description
2MP PTZ Camera	DH-SD59230U-HNI	2MP 30x Starlight IR PTZ Network Camera, WDR, PAL
	DH-SD59230UN-HNI	2MP 30x Starlight IR PTZ Network Camera, WDR, NTSC
	SD59230U-HNI	2MP 30x Starlight IR PTZ Network Camera, WDR, PAL
	SD59230UN-HNI	2MP 30x Starlight IR PTZ Network Camera, WDR, NTSC
	PFB300S	Wall Mount
	PFA110	Mount Adapter
	AC24V/3A	Power Adapter
	PFA140	Power Box
Accessories	PFB300C	Ceiling Mount
	PFA120	Water-proof 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

Pole Mount Com	er Mount Parapet 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)



