

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 Spec	ification				Auto Tracking	
Camera					IVS	-
Image Sensor		1/2.8"	STARVIS™ CMOS		Advanced Intelligent Functi	ions I
Effective Pixels		1920(F	H) x 1080(V), 2 Megapi	xels	Video	
RAM/ROM		1024N	/128M		Compression	1
Scanning System		Progre	ssive		Streaming Capability	3
Electronic Shutter Spo	eed	1/1s~1	/30,000s		Resolution	:
Minimum Illuminatio	n		0.005Lux@F1.6; B/W: F1.6 (IR on)	0.0005Lux@F1.6;	Resolution	
S/N Ratio		More t	han 55dB		5	
IR Distance		Distance up to 150m (492ft)		Frame Rate		
IR On/Off Control		Auto/N	⁄lanual			(
IR LEDs		4			Bit Rate Control	(
Lens					Bit Rate	1
Focal Length		4.5mm	~135mm		Day/Night	
Max. Aperture		F1.6 ~	F4.4		Backlight Compensation	1
Angle of View		H: 67.8	8° ~ 2.4°		White Balance	,
Optical Zoom		30x			Gain Control	,
•				Noise Reduction	- 1	
Focus Control		Auto/Manual		Motion Detection	5	
Close Focus Distance		100mm~ 1000mm		Region of Interest	9	
DORI Distance	. "				Electronic Image Stabilization (EIS)	on s
pinpoint the right car	nera for your n	eeds. T	imity" of distance which he DORI distance is cal	culated based on	Defog	5
criteria for Detect, Ob			rding to EN 62676-4 w Identify respectively.	mich defines the	Digital Zoom	:
Detect	Observe		Recognize	Identify	Flip	
1862m(6109ft)	744m(2441ft	t)	372m(1220ft)	186m(610ft)	Privacy Masking	
PTZ					Audio	
Pan/Tilt Range		Pan: 0°	~ 360° endless; Tilt: -1	15° ~ 90°,auto flip 180°	Compression	
Manual Control Spee	d	Pan: 0.	1° ~300° /s; Tilt: 0.1° ~	200° /s	Network	
Preset Speed		Pan: 400° /s; Tilt: 300° /s			Ethernet	
Presets 300						

5 Pattern, 8 Tour, Auto Pan ,Auto Scan

command in the specified period

power failure

DH-SD

Human-oriented focal Length/ speed adaptation

Auto restore to previous PTZ and lens status after

Activate Preset/ Scan/ Tour/ Pattern if there is no

Motion detection, Video tampering, Scene

changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly

IVS	Tripwire, Intrusion, Abandoned/Missing	
Advanced Intelligent Functions	Face Detection, Heat Map	
Video		
Compression	H.265+/H.265/H.264+/H.264	
Streaming Capability	3 Streams	
Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)	
	Main stream: 1080P/1.3M/ 720P(1~50/60fps)	
Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)	
	Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)	
Bit Rate Control	CBR/VBR	
Bit Rate	H.265/H.264: 448K ~ 8192Kbps	
Day/Night	Auto(ICR) / Color / B/W	
Backlight Compensation	BLC / HLC / WDR (120dB)	
White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Gain Control	Auto / Manual	
Noise Reduction	Ultra DNR (2D/3D)	
Motion Detection	Support	
Region of Interest	Support	
Electronic Image Stabilization (EIS)	Support	
Defog	Support	
Digital Zoom	16x	
Flip	180°	
Privacy Masking	Up to 24 areas	
Audio		
Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2	
Network		
Ethernet	RJ-45 (10Base-T/100Base-TX)	
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,802.1x	
Interoperability	ONVIF Profile S&G, API	
Streaming Method	Unicast / Multicast	
Max. User Access	20 users	
Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS, DMSS	
Smart Phone	IOS, Android	

Support

Event Trigger

PTZ Mode

Speed Setup

Idle Motion

Protocol Intelligence

Power up Action

Certifications

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

Interface

Video Interface	N/A
R\$485	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
Accessories	AC24V/3A	Power Adapter
	PFA140	Power Box
	PFB300C	Ceiling Mount
	PFA120	Water-proof Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet Mount

Accessories

Included:







Mount Adapter



AC24V/3A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount









PFA151 Corner Mount



PFB303S 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)

