

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		1/2.8" STARVIS™ CMOS		,	Advanced Intelligent Functions	Face Detection, Heat Map
Effective Pixels		1920(H) x 1080(V), 2 Megapixels		,	Video	
RAM/ROM 1		1024M/128M		(Compression H.265+/H.265/H.264+/H.264/MJPEG(
Scanning System	Pro	Progressive		9	Streaming Capability	3 Streams
Electronic Shutter S	peed 1/1	1/1s~1/30,000s			Pasalutian	1080P(1920×1080)/720P(1280×720)/
Minimum Illuminati		lor: 0.005Lux@F1.6; B/W: ux@F1.6 (IR on)	Resolution /: 0.0005Lux@F1.6;		resolution	D1(704×576/704×480)/CIF(352×288/352×240) Main stream: 1080P/1.3M/ 720P(1~50/60fps)
IR Distance	Dis	Distance up to 150m (492ft)				Sub stream1: D1/CIF(1 ~ 25/30fps)
IR On/Off Control	Au	Auto/Manual			Frame Rate	Sub stream2: 1080P/1.3M/720P/D1/CIF
IR LEDs	4					(1~25/30fps)
Lens				I	Bit Rate Control	CBR/VBR
Focal Length	4.5	mm~135mm		1	Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Max. Aperture		6 ~ F4.4		1	Day/Night	Auto(ICR) / Color / B/W
				- 1	Backlight Compensation	BLC / HLC / WDR (120dB)
Angle of View		67.8° ~ 2.4°		•	White Balance	Auto, ATW, Indoor, Outdoor, Manual
Optical Zoom	30:	30x		(Gain Control	Auto / Manual
Focus Control	Au	Auto/Manual			Noise Reduction	Ultra DNR (2D/3D)
Close Focus Distanc	e 10	100mm~ 1000mm		1	Motion Detection	Support
DORI Distance				1	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 sensor specification and lab test result according to EN 62676-4 which defines the			Electronic Image Stabilization (EIS)	Support		
		and Identify respectively.	nen dennes the	1	Defog	Support
Detect	Observe	Recognize	Identify	1	Digital Zoom	16x
1862m(6109ft)	744m(2441ft)	372m(1220ft)	186m(610ft)	1	Flip	180°
PTZ				ı	Privacy Masking	Up to 24 areas
Pan/Tilt Range	Par	Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°			Audio	
Manual Control Spe	ed Pai	Pan: 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	Pan: 400° /s; Tilt: 300° /s			Network	
Presets	30	300		1	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 Power up Action		Auto restore to previous PTZ and lens status after			Interoperability	DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x ONVIF Profile S&G, API
		power failure Activate Preset/ Scan/ Tour/ Pattern if there is no		9	Streaming Method	Unicast / Multicast
Idle Motion		command in the specified period			Max. User Access	20 users
Protocol Di- Intelligence		DH-SD			Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
	Mo	Motion detection, Video tampering, Scene		,	Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger		changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		1	Management Software	Smart PSS, DSS, DMSS

Smart Phone

IOS, Android

Certifications

	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	DC24V/2.5A(±25%), 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-SD59230U-HNI	2MP 30x Starlight IR PTZ Network Camera, WDR, PAL	
2MP PTZ	DH-SD59230UN-HNI	2MP 30x Starlight IR PTZ Network Camera, WDR, NTSC	
Camera	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	
	DC24V/2.5A	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



Mount Adapter



DC24V/2.5A 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	F	PFA110 + PFB300S + PFA120
Power Box Mount		Pole Mount
PFA110 + PFB300S + PFA140	F	PFA110 + PFB300S + PFA150
Corner Mount		Parapet Mount
PFA110 + PFB300S + PFA15	1	PFA110 + PFB303S

Dimensions (mm)



