

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.



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Technical Specification				Auto Tracking	Support	
Camera					IVS	Tripwire, Intrusion, Object Abandoned/Missing
Image Sensor	1/2.8	1/2.8" STARVIS™ CMOS			Advanced Intelligent Functions	Face Detection, Heat Map
Effective Pixels	1920	1920(H) x 1080(V), 2 Megapixels			Video	
RAM/ROM	1024	1024M/128M			Compression	H.265+/H.265/H.264+/H.264
Scanning System	Prog	Progressive			Streaming Capability	3 Streams
Electronic Shutter Speed	1/1s	~1/30,000s			Resolution	1080P(1920×1080)/720P(1280×720)/
Minimum Illumination		Color: 0.005Lux@F1.6; Black&White: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)				D1(704×576/704×480)/CIF(352×288/352×240) Main stream: 1080P/1.3M/720P(1~50/60fps)
/N Ratio More than 55dB			Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)		
IR Distance Up to 150m (492ft)			Frame Rate	Sub stream2: 1080P/1.3M/720P/D1/CIF		
IR On/Off Control	Auto	/Manual				(1~25/30fps)
IR LEDs	4				Bit Rate Control	CBR/VBR
Lens					Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Focal Length	4.5mm~135mm			Day/Night	Auto(ICR) / Color / B/W	
Max. Aperture	F1.6	F1.6~F4.4			Backlight Compensation	BLC / HLC / WDR (120dB)
Angle of View					White Balance	Auto, ATW, Indoor, Outdoor, Manual
-		H: 67.8° ~ 2.4°			Gain Control	Auto / Manual
	stical Zoom 30x			Noise Reduction	Ultra DNR (2D/3D)	
Focus Control	ocus Control Auto/Manual			Motion Detection	Support	
Close Focus Distance	Close Focus Distance 100mm [∼] 1000mm			Region of Interest	Support	
DORI Distance				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				Defog	Support	
sensor specification and lab t criteria for Detect, Observe, F			hich defines the		Digital Zoom	16x
Detect Obser	ve	Recognize	Identify		Flip	180°
1862m(6109ft) 744m	(2441ft)	372m(1220ft)	186m(610ft)		Privacy Masking	Up to 24 areas
PTZ					Audio	
Pan/Tilt Range/Horizontal Ra	-	0° ~ 360° endless; Tilt/H auto flip 180°	orizontal: -15° ~		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)
Presets	300					IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP,
PTZ Mode 5 Pattern, 8 Tour, Auto Pan ,Auto		auto Scan	Protocol	ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter, QoS, Bonjour, IEEE802.1x		
Speed Setup Human-oriented focal Length/ speed adaptation			Interoperability	ONVIF Profile S&G, API		
Power up Action Auto restore to previous PTZ and lens status after power failure			Streaming Method	Unicast / Multicast		
Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Max. User Access	20 users		
Protocol	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 changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly					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	AC24V/3A(±10%), PoE+(IEEE802.3at)
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

Gracing mornation		
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

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)



