

DH-SD59131U-HNI

720P 31x Starlight IR PTZ Network Camera



- · 1/2.8" STARVIS™ CMOS
- · Powerful 31x optical zoom
- · Starlight technology
- · H.265 Encoding
- Max. 25/30/50/60fps@720P
- · 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 Sec	cification			Δ	ito Tracking	Support
Technical Specification		IVS	rto Tracking	Support Tripuire latrusian Abandoned/Missing		
Camera Image Sensor 1/2 9" STADVISIM CNAOS				Tripwire, Intrusion, Abandoned/Missing		
Image Sensor 1/2.8" STARVIS™ CMOS Effective Divols 1280(H) v 720(V) 1 Meganiyels		Ad	vanced Intelligent Functions	Face Detection, Heat Map		
Effective Pixels 1280(H) x 720(V), 1 Megapixels		Vic	deo			
RAM/ROM 1024M/128M		Co	mpression	H.265+/H.265/H.264+/H.264		
Scanning System Progressive		Str	reaming Capability	3 Streams		
Electronic Shutter Speed 1/1s~1/30,000s				Re	solution	720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)
		Color: 0.005Lux@F1.6;B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)			Frame Rate	Main stream: 720P(1~50/60fps)
S/N Ratio		More than 55dB		Fra		Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance		Distance up to 150m (492ft)				Sub stream2: 720P/D1/CIF (1~25/30fps)
IR On/Off Control	A	Auto/Manual		D:	- Data Cantural	
IR LEDs	4	4			: Rate Control	CBR/VBR
Lens				Bit	Rate	H.265/H.264: 448K ~ 8192Kbps
Focal Length	4	4.8mm~150mm		Da	y/Night	Auto(ICR) / Color / B/W
Max. Aperture	F	F1.6 ~ F4.4		Ва	cklight Compensation	BLC / HLC / WDR (120dB)
Angle of View H: 58.3° ~ 1.9°			WI	hite Balance	Auto, ATW, Indoor, Outdoor, Manual	
Optical Zoom 31x		31x		Ga	in Control	Auto / Manual
		Auto/Manual		No	oise Reduction	Ultra DNR (2D/3D)
Close Focus Distance	e 1	100mm~ 1000mm		Mo	otion Detection	Support
DORI Distance				Re	gion 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			Ele (El	ectronic Image Stabilization S)	Support	
sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.		De	fog	Support		
Detect	Observe	Recognize	Identify	Dig	gital Zoom	16x
1613m(5292ft)	646m(2119ft)	323m(1060ft)	161m(528ft)	Flip	р	180°
PTZ				Pri	ivacy Masking	Up to 24 areas
Pan/Tilt Range	F	Pan: 0° ~ 360° endless; Tilt: -1	.5° ~ 90°,auto flip 180°	Au	idio	
Manual Control Spe	ed F	Pan: 0.1° ~300° /s; Tilt: 0.1° ~200° /s		Co	mpression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
Preset Speed	F	Pan: 400° /s; Tilt: 300° /s		Ne	etwork	
Presets		300		Eth	nernet	RJ-45 (10Base-T/100Base-TX)
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Pro	otocol	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				DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1
Power up Action		Auto restore to previous PTZ and lens status after power failure			eroperability reaming Method	ONVIF Profile S&G, API Unicast / Multicast
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			ax. User Access	20 users
Protocol		DH-SD		Ed	ge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Intelligence			We	eb Viewer	IE, Chrome, Firefox, Safari	
		Motion detection, Video tampering , Scene		Ma	anagement Software	Smart PSS, DSS, DMSS
Event Trigger		changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		Sm	nart 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+(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

Ordering mornation			
Туре	Part Number	Description	
	DH-SD59131U-HNI	720P 31x Starlight IR PTZ Network Camera, WDR, PAL	
720P PTZ	DH-SD59131UN-HNI	720P 31x Starlight IR PTZ Network Camera, WDR, NTSC	
Camera	SD59131U-HNI	720P 31x Starlight IR PTZ Network Camera, WDR, PAL	
	SD59131UN-HNI	720P 31x 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)



