

DH-SD59225U-HNI

2MP 25x Starlight IR PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 25x 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.

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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Spe	cification				Video	
Camera			Compression	H.265+/H.265/H.264+/H.264		
Image Sensor	1/2.8	1/2.8" STARVIS™ CMOS			Streaming Capability	3 Streams
Effective Pixels	1920	1920(H) x 1080(V), 2 Megapixels			Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)
RAM/ROM 1024M/128M				Main stream: 1080P/1.3M/720P(1~50/60fps)		
Scanning System Pr		Progressive			Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed 1/1s~1/30,000s				Sub stream2: 1080P/1.3M/720P/D1/CIF		
Minimum Illuminati	mum Illumination Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)			Bit Rate Control	(1~25/30fps) CBR/VBR	
S/N Ratio	More	e than 55dB			Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR Distance	Dista	nce up to 150m (492ft)			Day/Night	Auto(ICR) / Color / B/W
IR On/Off Control	Auto	/Manual			Backlight Compensation	BLC / HLC / WDR (120dB)
IR LEDs	4				White Balance	
Lens						Auto, ATW, Indoor, Outdoor, Manual
Focal Length 4.8mm~120mm				Gain Control	Auto / Manual	
Max. Aperture	F1.6 ~ F4.4				Noise Reduction	Ultra DNR (2D/3D)
Angle of View	H: 59	H: 59.2° ~ 2.4°			Motion Detetion	Support
Optical Zoom 25x					Region of Interest	Support
Focus Control Auto/Manual				Electronic Image Stabilization (EIS)	Support	
Close Focus Distance 100mm~ 1000n		nm~ 1000mm			Defog	Support
DORI Distance					Digital Zoom	16x
		oximity" of distance whi			Flip	180°
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			Privacy Masking	Up to 24 areas		
	Observe, Recognize an	d Identify respectively.	Idontifu		Audio	
Detect		Recognize	Identify		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/
1613m(5292ft)	646m(2119ft)	323m(1060ft)	161m(528ft)			MPEG2-L2
PTZ					Network	
Pan/Tilt Range		0° ~ 360° endless; Tilt: -1	, ,		Ethernet	RJ-45 (10Base-T/100Base-TX)
Manual Control Spe	ed Pan:	Pan: 0.1° ~300° /s; Tilt: 0.1° ~200° /s			Protocol	IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP,
Preset Speed	Pan:	Pan: 400° /s; Tilt: 300° /s				DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Presets 30		300			Interoperability	ONVIF, PSIA, CGI
PTZ Mode 5 I		5 Pattern, 8 Tour, Auto Pan ,Auto Scan			Streaming Method	Unicast / Multicast
Speed Setup Hu		Human-oriented focal Length/ speed adaptation			Max. User Access	20 users
POWER IID ACTION		Auto restore to previous PTZ and lens status after power failure			Edge Storage	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 128GB
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			Web Viewer	IE, Chrome, Firefox, Safari
		DH-SD			Management Software	Smart PSS, DSS
Intelligence			Smart Phone	IOS, Android		
Auto Tracking Sup		ort			Certifications	
IVS Tripwire		vire, Intrusion,Abandone ction, Heat Map	ed/Missing, Face		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 $^{\sim}$ 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	3.5kg(7.72lb)
Gross Weight	6.8kg(14.99lb)

Ordering Information				
Туре	Part Number	Description		
2MP PTZ Camera	DH-SD59225U-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL		
	DH-SD59225UN-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, NTSC		
	SD59225U-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL		
	SD59225UN-HNI	2MP 25x 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)



