

DH-SD6C225U-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
- · 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 0.005lux. 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 $^{\sim}$ 60°C (-40°F $^{\sim}$ +140°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

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against 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		1/2.8" STARVIS™ CMOS			Advanced Intelligent Functions	Face Detection, Heat Map
Effective Pixels		1920(H) x 1080(V), 2 Megapixels		xels	Video	
RAM/ROM		1024M/128M			Compression	H.265+/H.265/H.264+/H.264
Scanning System		Progressive			Streaming Capability	3 Streams
Electronic Shutter Speed		1/1s~1/30,000s			Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280x
Minimum Illumination		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)			Resolution	720)/D1(704×576/704×480)/CIF(352×288/352×24 Main stream: 1080P/1.3M/720P(1~50/60fps)
S/N Ratio		More than 55dB			Forma Data	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance		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		6			Bit Rate Control	CBR/VBR
Lens					Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Focal Length		4 8mm	~120mm		Day/Night	Auto(ICR) / Color / B/W
-					Backlight Compensation	BLC / HLC / WDR (120dB)
Max. Aperture		F1.6 ~ F4.4		White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Angle of View		H: 62.8° ~ 2.6°		Gain Control	Auto / Manual	
Optical Zoom		25x			Noise Reduction	Ultra DNR (2D/3D)
Focus Control		Auto/Manual			Motion Detection	Support
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 sensor specification and lab test result according to EN 62676-4 which defines the			Iculated based on	Defog	Support	
•			dentify respectively.	mich defines the	Digital Zoom	16x
Detect	Observe		Recognize	Identify	Flip	180°
1613m(5292ft)	646m(2119f	t)	323m(1060ft)	161m(528ft)	Privacy Masking	Up to 24 areas
PTZ					Audio	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2	
Manual Control Spe	eed	Pan: 0.1° ~160° /s; Tilt: 0.1° ~120° /s		Network		
Preset Speed		Pan: 240° /s; Tilt: 200° /s		Ethernet	RJ-45 (10Base-T/100Base-TX)	
Presets		500		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,	
PTZ Mode Speed Setup		5 Pattern, 8 Tour, Auto Pan ,Auto Scan Human-oriented focal Length/ speed adaptation			DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1	
Speed Setup		Auto restore to previous PTZ and lens status after		Interoperability	ONVIF Profile S&G, API	
Power up Action		power failure		Streaming Method	Unicast / Multicast	
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Max. User Access	20 users	
Protocol		DH-SD, Pelco-P/D (Auto recognition)		gnition)	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		Management Software	Smart PSS, DSS, DMSS	
Event Trigger		changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		Smart Phone	IOS, Android	

Certifications

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	1 port(BNC, 1.0V[p-p], 75Ω)
RS485	1
Audio I/O	1/1
Alarm I/O	2/1

Electrical

Power Supply	AC24V/3A(±10%)
Power Consumption	10.5W, 26W (IR on)

Environmental

Operating Conditions	-40°C $^{\sim}$ 60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH	
Ingress Protection	IP66	
Vandal Resistance	N/A	

Construction

Casing	Metal
Dimensions	Ф205(mm) x 336(mm)
Net Weight	5kg(11.02lb)
Gross Weight	8.3kg(18.30lb)

Ordering Information

Ordering information			
Туре	Part Number	Description	
	DH-SD6C225U-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL	
2MP PTZ	DH-SD6C225UN-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, NTSC	
Camera	SD6C225U-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL	
	SD6C225UN-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, NTSC	
	64FB	Wall Mount	
	AC24V/3A	Power Adapter	
	PFA114	Mount Adapter	
	PFB303W	Wall Mount	
Accessories	PFA140	Power Box	
Accessories	PFB300C	Ceiling Mount	
	PFA120	Junction Box	
	PFA150	Pole Mount	
	PFA151	Corner Mount	
	PFB303S	Parapet Mount	

Accessories

Included:



64FB Wall Mount

AC24V/3A Power Adapter

Optional:







PFA114

Mount Adapter

PFB303W Wall Mount

PFA140 Power Box







PFB300C Ceiling Mount

PFA120 Junction Box

PFA150 Pole Mount







PFB303S Parapet Mount

Corner Mount Parape	et Mount
Ceiling Mount	Junction Mount
PFA114 + PFB300C	PFA114 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA114 + PFB303W + PFA140	PFA114 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA114 + PFB303W + PFA151	PFA114+ PFB303S

Dimensions (mm)



