

DH-SD6CE225U-HNI

2MP 25x Starlight IR PTZ Network Camera





- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- Starlight technology
- Max. 50/60fps@1080P
- Auto-tracking and IVS
- · IR distance up to 200m
- · Support PoE+
- · IP67, IK10



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 $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for ±25% input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 8KV 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		Video	
RAM/ROM 1024M/128M			Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)	
Scanning System		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(30IRE); B/W: 0.0005Lux@F1.6(30IRE); 0Lux@F1.6 (IR on)		Frame Rate	D1(704×576/704×480)/CIF(352×288/352×240) Main stream: 1080P/1.3M/ 720P(1~50/60fps)
S/N Ratio		More than 55dB			Sub stream1: D1/CIF(1 ~ 25/30fps)
IR Distance		Distance up to 200m (656ft)		Trume Nate	Sub stream2: 1080P/1.3M/720P/D1/CIF
IR On/Off Control	A	Auto/Manual			(1~25/30fps)
IR LEDs	6	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
		F1.6 ~ F4.4		Backlight Compensation	BLC / HLC / WDR (120dB)
		H: 62.8° ~ 2.6°		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Ů				Gain Control	Auto / Manual
Optical Zoom		25x		Noise Reduction	Ultra DNR (2D/3D)
Focus Control		Auto/Manual		Motion Detection	Support
Close Focus Distance	e 1	100mm~ 1000mm		Region of Interest	Support
DORI Distance *Note: The DORI distance is a "general proximity" of distance which makes it easy to			ch makes it easy to	Electronic Image Stabilization (EIS)	Support
		eds. The DORI distance is cal It according to EN 62676-4 w		Defog	Support
		nize and Identify respectively.		Digital Zoom	16x
Detect	Observe	Recognize	Identify	Flip	180°
1613m(5292ft)	646m(2119ft)	323m(1060ft)	161m(528ft)	Privacy Masking	Up to 24 areas
PTZ				Audio	
Pan/Tilt Range Manual Control Spec		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180° Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
Preset Speed		Pan: 300° /s; Tilt: 200° /s		Network	
Presets		300		Ethernet	RJ-45 (10Base-T/100Base-TX)
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,A	auto Scan	Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SMMP, RTSP, RTP, SMTP, NTP, DHCP,
Speed Setup		Human-oriented focal Length/ speed adaptation		lakanan anakilika.	DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.12
Power up Action		Auto restore to previous PTZ and lens status after power failure		Interoperability Streaming Method	ONVIF Profile S&G, API 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)		Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Intelligence				Web Viewer	IE, Chrome, Firefox, Safari
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection, IP address		Management Software	Smart PSS, DSS, DMSS
		conflict, Illegal Access, Storage anomaly		Smart Phone	IOS, Android

Certifications

Interface

Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
RS485	1
Audio I/O	1/1
Alarm I/O	7/2

Electrical

Power Supply	AC24V/3A(±25%), PoE+(802.3at)
Power Consumption	17W, 25W(IR On, Heater On)

Environmental

Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH	
Ingress Protection	IP67	
Vandal Resistance	IK10	

Construction

Casing	Metal
Dimensions	ф209×337.4mm
Net Weight	5.8kg(12.79lb)
Gross Weight	9.1kg(20.06lb)

Ordering Information			
Туре	Part Number	Description	
	DH-SD6CE225U-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL	
2MP PTZ	DH-SD6CE225UN-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, NTSC	
Camera	SD6CE225U-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL	
	SD6CE225UN-HNI	2MP 25x Starlight IR PTZ Network Camera, WDR, NTSC	
	PFB305W	Wall Mount	
	AC24V/3A	Power Adapter	
	PFA111	Mount Adapter	
	PFA140	Power Box	
Accessories	PFB300C	Ceiling Mount	
	PFA120	Junction Box	
	PFA150	Pole Mount	
	PFA151	Corner Mount	
	PFB303S	Parapet Mount	

Accessories

Included:



PFB305W Wall Mount

AC24V/3A Power Adapter

Optional:







PFA140 Power Box



PFB300C Ceiling Mount



Mount Adapter

PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Ceiling Mount	Junction Mount	
PFA111 + PFB300C	PFB305W	
Power Box Mount	Pole Mount	
PFB305W + PFA140	PFB305W + PFA150	
Corner Mount	Parapet Mount	
PFB305W + PFA151	PFA111+ PFB303S	

Dimensions (mm)







