

DH-SD6CE225U-HNI-LZ

2MP 25x Starlight IR PTZ Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- Starlight technology
- · SVC
- · 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 $^{\sim}$ 65°C 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

Protection

demanding outdoor applications.

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.

Audio

Audio bitrate - at least MP2L2: 32 k / s, 40 k/ s, 48 k / s, 56 k/ s, 64 k/ s, 80 k / s, 96 k / s, 112 k/ s, 128 k/ s, 144 k/ s, 160 k/ s, 192 k/s. Sampling rate-at least PCM: 8 kHz, 16 kHz, 32 kHz, 48 kHz. Environmental noise filtering

Linking alarms

Preset, patrolling, template, recording video to a memory card, triggering an alarm output, sending an Email, notifying the monitoring center, uploading to FTP, intelligent tracking.



Progressive Progressive Progressive Progressive Progressive Progressive Progressive Servating Capability Servating Cap	Technical Specification				Auto Tracking	Support, 3D positioning, PTZ position display, Freeze frame when switching to preset	
Minimum	Camera					IVS	Tripwire, Intrusion, Abandoned/Missing
Many	Image Sensor	mage Sensor 1/2.8" STARVIS™ CMOS		Advanced Intelligent Functions	Face Detection, Heat Map		
Semanting System	Effective Pixels 1920(H) x 1080(V), 2 Megapixels		Video				
Streaming Capability Streaming Capabilit	RAM/ROM		1024M	/128M		Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Resolution Display	Scanning System		Progressive		Streaming Capability	3 Streams	
Minimum Illuminant il	Electronic Shutter Sp	peed	1/1s~1/30,000s, support for slow shutter			1080P(1920×1080)/720P(1280×720, 1280×960)/	
Spitance Frame Rate Sub streams: DJ.Cirl[1 = 25/30/pg.) 6.06x4 Sub streams: DJ.Cirl[1 = 25/30/pg.] 6.0	Minimum Illumination		- ' ' ' ' '		resolution	D1(704×576/704×480)/CIF(352×288/352×240) Main stream: 1080P/1.3M/ 720P(1~50/60fps) 60 Hz	
R Distance	S/N Ratio		More than 52dB		5		
R Ory/OFF Control R LEDS	IR Distance		Distanc	ce up to 200m (656ft)		ridille Nate	
REEDS	IR On/Off Control		Auto/N	1anual			
Procal Length	IR LEDs		6			Bit Rate Control	
Seminary	Lens					Bit Rate	H.265/H.264: 32K ~ 16384 bps Profile: Baseline, Main, High
Max. Aperture	Focal Length		2.8mm	~120mm		Day/Night	Auto(ICR) / Color / B/W
Angle of View H: 57,6° = 2.5° V: 34,4° = 1.4° D: 64,5° = 2.9° White Balance Auto, ATW, Indoor, Outdoor, Manual Optical Zoom Z5x, zoom speed 3,6 s Noise Reduction Ultra DNR (20/3D) Focus Control Auto/Manual Noise Reduction Ultra DNR (20/3D) Close Focus Distance 100mm* 1000mm Region of Interest Support PORT Distance Protect Support Support "Note: The DORI distance = 76 your needs. The DORI distance is calculated based on sensor specification* and late test respectively. Scheduled tasks Preset, templates, patrolling, automatic, random, frame, panoramic scanning, rebic criteria for Detect, Userver, Recognize Identify Figure 110 per 100	Max Aperture		F1 6 ~ F	FΔ Δ		Backlight Compensation	BLC / HLC / WDR (120dB)
Optical Zoom					4° D. C4 E° × 2.0°	White Balance	Auto, ATW, Indoor, Outdoor, Manual
Focus Control Auto/Manual Nose Reduction Motion Detection, Defog Support Region of Interest Support Suppo					4 D: 64,5 ~ 2.9 ·	Gain Control	Auto / Manual
Motion Detection, Defog Support Region of Interest Support Region of Interest Support Support Support Region of Interest Support Sup	Optical Zoom		25x, zoom speed 3,6 s		Noise Reduction	Ultra DNR (2D/3D)	
Region of Interest Support Support Post 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 6276-4 which defines the criteria for Petect, Observe, Recognize and Identify respectively. Detect Observe, Recognize and Lentify respectively. Detect Observe, Recognize and John (2015) Detect Observe Jo	Focus Control		Auto/Manual		Motion Detection, Defog	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 criteria for Detect, Observe, Recognize and identify respectively. Detect Observe Recognize and identify respectively. Detect Observe Recognize in identify respectively. Digital Zoom 16x, Proportional increase Filip 180° Privacy Masking Up to 24 areas Addio Compression G.711alaw/G.711ulaw/AAC/G.722 / G.726/G.729/PCM Compression G.711alaw/G.711ulaw/AAC/G.722 / G.726/G.729/PCM Respect Speed Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s Preset Speed Setup Pan: 300° /s; Tilt: 0.1° ~120° /s Preset Speed Setup Phane Recognize in Speed adaptation Protocol Proving Pr	Close Focus Distance		100mm~ 1000mm		Region of Interest	Support	
Interior the Controlate See Section (1974) (DORI Distance				Support		
Detect Observe Recognize Identify Flip 180* 1613m(5292ft) 646m(2119ft) 323m(1060ft) 161m(528ft) Privacy Masking Up to 24 areas PTZ Pan/Tilt Range Pan: 0* ~360* endless; Tilt: -10* ~90*, auto flip 180* Manual Control Speed Pan: 0.1* ~200* /s; Tilt: 0.1* ~120* /s Preset Speed Pan: 300* /s; Tilt: 200* /s Preset Speed Pan: 300* /s; Tilt: 200* /s PTZ Mode 5 Pattern, 8 Tour, Auto Pan, Auto Scan, Protocol Put, IGMP, IGMP, SMMP, RTCP, RTSP, RTP, Speed Setup Human-oriented focal Length/ speed adaptation Power up Action Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period Command in the specified period DH-SD, Pelco-P/D (Auto recognition) Intelligence Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict literal Acress Strage anomaly and strage files Strage anomaly and strage files for a command in the specified period Paddress conflict literal Acress Strage anomaly and strage files Strage anomaly and strage files files and response files and response files for appearing, Scene changing, Network disconnection, IP address conflict literal Acress Strage anomaly and strage files fire and strage files for age. Post Trigger Privacy Masking Privacy Audio Privacy Masking Privacy Masking Privacy	pinpoint the right camera for your needs. The DORI distance is calculated based on		culated based on		Preset, templates, patrolling, automatic, vertical, random, frame, panoramic scanning, reboot		
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			changing, Network disconnection, IP address		-	Smart PSS, DSS, DMSS NAS (Network Attached Storage),Local PC for instant	
recording, ANR, Micro SD/SDHC/SDXC care			conflict	conflict, Illegal Access, Storage anomaly		Eage Storage	recording, ANR, Micro SD/SDHC/SDXC card 256GB

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], 75 Ω)
RS485	1
Audio I/O	1/1, 600 Ohms
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 ~ 65°C / Less than 95% RH
Ingress Protection	IP67, Anti-fogging protection
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-LZ	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL
2MP PTZ	DH-SD6CE225UN-HNI-LZ	2MP 25x Starlight IR PTZ Network Camera, WDR, NTSC
Camera	SD6CE225U-HNI-LZ	2MP 25x Starlight IR PTZ Network Camera, WDR, PAL
	SD6CE225UN-HNI-LZ	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)





