

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 0.002lux. 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 $^{\circ}$ 60°C (-40°F $^{\circ}$ +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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Intelligence

Auto Tracking

IVS

Support

Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map

Technical Spe	cification					Video	
Camera						Compression	H.265+/H.265/H.264+/H.264
Image Sensor		1/2.8" STARVIS™ CMOS				Streaming Capability	3 Streams
Effective Pixels		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		Progressive				Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter S	peed	1/1s~1/30,000s					Sub stream2: 1080P/1.3M/720P/D1/CIF
Minimum Illuminat	ion	Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)					(1~25/30fps)
S/N Ratio		More than 55dB				Bit Rate Control	CBR/VBR
IR Distance		Distance up to 150m (492ft)				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control		Auto/Manual				Day/Night	Auto(ICR) / Color / B/W
IR LEDs		6				Backlight Compensation	BLC / HLC / WDR (120dB)
Lens						White Balance	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						Motion Detection	Support
-		H: 62.8° ~ 2.6°			Region of Interest	Support	
Optical Zoom Focus Control		25x Auto/Manual			Electronic Image Stabilization (EIS)	Support	
Close Focus Distanc	e	100mm~ 1000mm				Defog	Support
DORI Distance					Digital Zoom	16x	
			imity" of distance whi			Flip	180°
sensor specification	and lab test re	needs. The DORI distance is calculated based on sult according to EN 62676-4 which defines the			Privacy Masking	Up to 24 areas	
criteria for Detect, Observe, Recogn Detect Observe		iize aiiu	Recognize	Identify		Audio	
1613m(5292ft)	646m(2119f	t)	323m(1060ft)	161m(528ft)		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
PTZ						Network	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180°			Ethernet	RJ-45 (10Base-T/100Base-TX)	
Manual Control Speed		Pan: 0.1° ~160° /s; Tilt: 0.1° ~120° /s				Protocol	IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Preset Speed		Pan: 240° /s; Tilt: 200° /s				Interoperability	ONVIF, PSIA, CGI
Presets		300				Streaming Method	Unicast / Multicast
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan				Max. User Access	20 users
Speed Setup		Human-oriented focal Length/ speed adaptation					NAS (Network Attached Storage),Local PC for
Power up Action		Auto restore to previous PTZ and lens status after power failure			Edge Storage	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	
Protocol		DH-SD, Pelco-P/D (Auto recognition)				Management Software	Smart PSS, DSS
Intelligence						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], 75 Ω)
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 ~ 60°C (-40°F ~ +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 Part Number Description Type 2MP 25x Starlight IR PTZ DH-SD6C225U-HNI Network Camera, WDR, PAL 2MP 25x Starlight IR PTZ DH-SD6C225UN-HNI Network Camera, WDR, NTSC 2MP PTZ Camera 2MP 25x Starlight IR PTZ SD6C225U-HNI Network Camera, WDR, PAL 2MP 25x Starlight IR PTZ SD6C225UN-HNI Network Camera, WDR, NTSC 64FB Wall Mount AC24V/3A Power Adapter PFA114 Mount Adapter PFB303W Wall Mount PFA140 Power Box Accessories PFB300C Ceiling Mount PFA120 Junction Box PFA150 Pole Mount PFA151 Corner Mount PFB303S Parapet Mount

Accessories

Included:



Wall Mount

Power Adapter

Optional:







Mount Adapter

PFB303W Wall Mount

PFA140 Power Box



PFB300C





PFA120 Junction Box

PFA150 Pole Mount



Ceiling Mount

PFA151 Corner Mount



PFB303S Parapet 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)



