

DH-SD60225U-HNI

2MP 25x Starlight 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+
- · 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 0.002lux. 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 ~ 70°C (-40°F ~ +158°F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. 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 $\pm 25\%$ 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.



Pro Series | DH-SD60225U-HNI

Technical Specification

Camera

Image Sensor	1/2.8" STARVIS™ CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	1024M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6
S/N Ratio	More than 55dB
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A
Lens	
Focal Length	4.8mm~120mm
Max. Aperture	F1.6 ~ F4.4
Angle of View	H: 62.8° ~ 2.6°
Optical Zoom	25x
Focus Control	Auto/Manual
Close Focus Distance	100mm~ 1000mm

DORI Distance

*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	Identify	
1613m(5292ft)	646m(2119ft)		323m(1060ft)	161m(528ft)	
PTZ					
Pan/Tilt Range	Pa		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°,auto flip 180°		
Manual Control Speed		Pan: 0.	Pan: 0.1° ~300° /s; Tilt: 0.1° ~150° /s		
Preset Speed	Pan: 60		600° /s; Tilt: 500° /s		
Presets	300		0		
PTZ Mode	lode 5 Par		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		
Speed Setup		Human-oriented focal Length/ speed adaptation			
Power up Action		Auto restore to previous PTZ and lens status after power failure			
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			
Protocol		DH-SD, Pelco-P/D (Auto recognition)			
Intelligence					
Auto Tracking		Support			
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map			

Video Compression H.265+/H.265/H.264+/H.264 Streaming Capability 3 Streams 1080P(1920×1080)/1.3M(1280×960)/720P(1280× Resolution 720)/D1(704×576/704×480)/CIF(352×288/352×240) Main stream: 1080P/1.3M/720P(1~50/60fps) Sub stream1: D1/CIF(1 ~ 25/30fps) Frame Rate Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps) Bit Rate Control CBR/VBR Bit Rate H.265/H.264: 448K ~ 8192Kbps Day/Night Auto(ICR) / Color / B/W **Backlight Compensation** BLC / HLC / WDR (120dB) White Balance Auto,ATW,Indoor,Outdoor,Manual Gain Control Auto / Manual Ultra DNR (2D/3D) Noise Reduction Motion Detection Support **Region of Interest** Support **Electronic Image Stabilization** Support (EIS) Defog Support 16x **Digital Zoom** 180° Flip Privacy Masking Up to 24 areas Audio G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ Compression MPEG2-L2 Network Ethernet RJ-45 (10Base-T/100Base-TX) IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, Protocol DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Max. User Access 20 users NAS (Network Attached Storage), Local PC for Edge Storage instant recording, Micro SD card 128GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS Smart Phone IOS, Android Certifications CE: EN55032/EN55024/EN50130-4 Certifications FCC: Part15 subpartB,ANSI C63.4- 2014

UL: UL60950-1+CAN/CSA C22.2, No.60950-1

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Interface

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	13W,20W (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	Φ222(mm) x 292(mm)
Net Weight	3.5kg(7.72lb)
Gross Weight	7.5kg(16.53lb)

Ordering Information

Туре	Part Number	Description
2MP PTZ Camera	DH-SD60225U-HNI	2MP 25x Starlight PTZ Network Camera, WDR, PAL
	DH-SD60225UN-HNI	2MP 25x Starlight PTZ Network Camera, WDR, NTSC
	SD60225U-HNI	2MP 25x Starlight PTZ Network Camera, WDR, PAL
	SD60225UN-HNI	2MP 25x Starlight PTZ Network Camera, WDR, NTSC
Accessories	PFB303W	Wall Mount
	PFA111	Mount Adapter
	AC24V/3A	Power Adapter
	PFA140	Power Box
	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet Mount

Accessories

Included:



Wall Mount



PFA111

Mount Adapter



AC24V/3A Power Adapter

Optional :



Power Box

PFA150

Pole Mount

PFB300C Ceiling Mount



Junction Box



PFA151

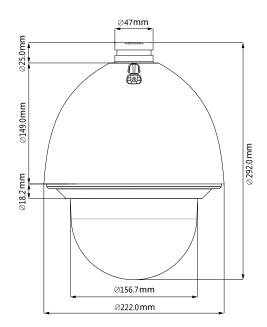
Corner Mount



PFB303S Parapet Mount

Ceiling Mount	Junction Mount	
PFA111 + PFB300C	PFA111 + PFB303W + PFA120	
Power Box Mount	Pole Mount	
PFA111 + PFB303W + PFA140	PFA111 + PFB303W + PFA150	
Corner Mount	Parapet Mount	
PFA111 + PFB303W + PFA151	PFA111+ PFB303S	

Dimensions (mm)





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