

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 0.005lux. 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 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.

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Technical Spe	cification				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				1080P(1920×1080)/720P(1280×720)/
		Color: 0.005Lux@F1.6(30IRE); B/W: 0.0005Lux@F1.6(30IRE)			Resolution	D1(704×576/704×480)/CIF(352×288/352×240)
S/N Ratio		More than 55dB			Frame Rate	Main stream: 1080P/1.3M/ 720P(1~50/60fps)
IR Distance		N/A				Sub stream1: D1/CIF(1 ~ 25/30fps)
IR On/Off Control		N/A				Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)
IR LEDs		N/A			Bit Rate Control	CBR/VBR
Lens					Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Focal Length 4		4.8mm~120mm	4.8mm~120mm		Day/Night	Auto(ICR) / Color / B/W
Max. Aperture F1.6 ~ F4.4				Backlight Compensation	BLC / HLC / WDR (120dB)	
				White Balance	Auto, ATW, Indoor, Outdoor, Manual	
-		25x			Gain Control	Auto / Manual
·					Noise Reduction	Ultra DNR (2D/3D)
Focus Control		Auto/Manual			Motion Detection	Support
Close Focus Distance 100mm~ 1000mm			Region of Interest	Support		
*Note: The DORI distance is a "general proximity" of distance which makes it easy to				Electronic Image Stabilization (EIS)	Support	
pinpoint the right of	amera for your i	needs. The DORI distance is sult according to EN 62676-	calculated based on		Defog	Support
		nize and Identify respective			Digital Zoom	16x
Detect	Observe	Recognize	Identify		Flip	180°
1613m(5292ft)	646m(2119f	ft) 323m(1060ft)	161m(528ft)		Privacy Masking	Up to 24 areas
PTZ					Audio	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180°			Communication	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/
Manual Control Spe	eed	Pan: 0.1° ~300° /s; Tilt: 0.1° ~150° /s			Compression	MPEG2-L2
Preset Speed		Pan: 600° /s; Tilt: 500° /s			Network	
Presets		300			Ethernet	RJ-45 (10Base-T/100Base-TX)
PTZ Mode		5 Pattern, 8 Tour, Auto Par			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
Speed Setup		Human-oriented focal Length/ speed adaptation			Interoperability	ONVIF Profile S&G, API
Power up Action		Auto restore to previous PTZ and lens status after 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)			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 conflict, Illegal Access, Storage anomaly			Management Software	Smart PSS, DSS, DMSS
55					Smart Phone	IOS, Android

Certifications

Cartifications	CE: EN55032/EN55024/EN50130-4
Certifications	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)
R\$485	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 $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ф222(mm) x 292(mm)
Net Weight	3.5kg(7.72lb)
Gross Weight	7.5kg(16.53lb)

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

Accessories

Included:







PFA111 Mount Adapter



AC24V/3A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



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)

