

DH-SD50225U-HNI 2MP 25x Starlight PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- · H.265 Encoding
- Starlight technology
- · Max. 50/60fps@1080P, 25/30/50/60fps@720P
- · Auto-tracking and IVS
- · Support PoE+
- · IP67, IK10



System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD50 series PTZ camera can provide large monitoring range and great detail. The camera delivers 1080P resolution at 50/60 fps, with 25x optical zoom, and has very excellent low light performance due to adopting the latest starlight technology. SD50 series PTZ is equipped with quick and smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Functions

Starlight Technology

Thanks to our experience and expertise in hardware and software development, the camera is equipped with the latest image processing algorithm, high performance hardware and high quality optical components, which make the camera have very exellent low light performance. In most conditions, this camera can deliver clear, bright and low-noise color images.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, true WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Auto-tracking

The camera supports auto-tracking. The tracking action can be triggered manually or automatically by defined rules. Once rules are triggered, the camera can zoom in and track the defined target automatically.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection

This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of 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-SD50225U-HNI

Technical Specification

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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~1/300,000s
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: 59.2° ~ 2.4°
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		Pan: 0° $^{\circ}$ 360° endless; Tilt: 0° $^{\circ}$ 90°,auto flip 180°			
Manual Control Spee	Manual Control Speed		Pan: 0.1° ~350° /s; Tilt: 0.1° ~250° /s		
Preset Speed		Pan: 50	00° /s; Tilt: 500° /s		
Presets		300			
PTZ Mode	Z Mode		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			
Intelligence					
Auto Tracking	Tracking		Support		
IVS			Tripwire, Intrusion, Abandoned/Missing, Face Detection		

Video			
Compression		H.265/H.264 / MJPEG	
Streaming Capability		3 Streams	
Resolution		1080P(1920×1080)/1.3M(1280×960)/720P(1280× 720)/D1(704×576/704×480)/CIF(352×288/352×240)	
Frame Rate	Main stream	1080P/720P/1.3M(1 ~ 50/60fps)	
	Sub stream1	D1/CIF(1 ~ 25/30fps)	
	Sub stream2	1080P/1.3M/720P/D1/CIF (1 ~ 25/30fps)	
Bit Rate Control		CBR/VBR	
Bit Rate		H.265/H.264: 448K ~ 8192Kbps, MJPEG: 5120K ~ 10240Kbps	
Day/Night		Auto(ICR) / Color / B/W	
Backlight Compe	ensation	BLC / HLC / WDR (120dB)	
White Balance		Auto,ATW,Indoor,Outdoor,Manual	
Gain Control		Auto / Manual	
Noise Reduction		Ultra DNR (2D/3D)	
Motion Detetion		Support	
Region of Interest		Support	
Electronic Image Stabilization (EIS)		Support	
Defog		Support	
Digital Zoom		16x	
Flip		180°	
Privacy Masking		Up to 24 areas	
Audio			
Compression		G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2	
Network			
Ethernet		RJ-45 (10/100Base-T)	
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	
Interoperability		ONVIF, PSIA, CGI	
Streaming Metho	od	Unicast / Multicast	
Max. User Access		20 users	
Edge Storage		NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB	
Web Viewer		IE, Chrome, Firefox, Safari	
Management Software		Smart PSS, DSS	
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	

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Interface	
Video Interface	N/A
Audio Interface	1/1
RS485	N/A
Alarm	2/1
Electrical	
Power Supply	AC24V/1.5A(±10%), PoE+(802.3at)
Power Consumption	13W,23W (Heater on)
Environmental	
Operating Conditions	-40°C $^{\circ}$ 60°C (-40°F $^{\circ}$ +140°F) / Less than 90% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Φ186.0(mm) x 253(mm)
Net Weight	2.5kg(5.51lb)
Gross Weight	4.5kg(9.92lb)

Ordering Information

Туре	Part Number	Description
DH-S 2MP PTZ Camera SD50	DH-SD50225U-HNI	2MP 25x Starlight PTZ Network Camera, WDR, PAL
	DH-SD50225UN-HNI	2MP 25x Starlight PTZ Network Camera, WDR, NTSC
	SD50225U-HNI	2MP 25x Starlight PTZ Network Camera, WDR, PAL
	SD50225UN-HNI	2MP 25x Starlight PTZ Network Camera, WDR, NTSC
	PFB300S	Wall Mount
	PFA110	Mount Adapter
	AC24V/1.5A	Power Supply
	PFA140	Power box
Accessories	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet mount

Accessories

Included:

Optional:



Wall Mount

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PFA140

Power box

PFA150

Pole Mount



PFA110



Mount Adapter

AC24V/1.5A Power Supply







PFA120 Junction Box





PFB300C

Ceiling Mount



PFA151 Corner Mount

PFB303S Parapet Mount

Ceiling Mount	Junction Mount
PFA110 + PFB300C	PFA110 + PFB300S + PFA120
Power Box Mount	Pole Mount
PFA110 + PFB300S + PFA140	PFA110 + PFB300S + PFA150
Corner Mount	Parapet Mount
PFA110 + PFB300S + PFA151	PFA110 + PFB303S



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Dimensions (mm)



