

DH-SD10A248V-HNI

2MP 48x Starlight IR PTZ Network Camera



- · 1/1.9" 2Megapixel CMOS
- · Powerful 48x optical zoom
- Starlight technology
- · Max. 50/60fps@1080P
- · Support Hi-PoE
- · IR distance up to 450m
- · IP67



System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

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 0.001lux. 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 Wiper

With Dahua smart wiper technology, the wiper can be started/stopped automatically when the build-in rain senor discerns whether it rains. The technology could offer better surveillance performance against wet weather and reduce dependence on manual operation.

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 to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most 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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Ultra Series | DH-SD10A248V-HNI

Technical Specification

Camera

Image Sensor	1/1.9" 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: 0.001Lux@F1.4; 0Lux@F1.4 (IR on)
S/N Ratio	More than 55dB
IR Distance	Distance up to 450m (1476ft)
IR On/Off Control	Auto/Manual
IR LEDs	10
Lens	

Focal Length	5.7mm~275mm
Max. Aperture	F1.4~ F4.5
Angle of View	H: 64.55° ~ 1.5°
Optical Zoom	48x
Focus Control	Auto/Manual
Close Focus Distance	10mm~ 1500mm

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	
2731m(8960ft)	1092m (3583ft)		546m(1791ft)	273m(896ft)	
PTZ					
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -30° ~ 90°,auto flip 180°			
Manual Control Speed		Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s			
Preset Speed		Pan: 24	Pan: 240° /s; Tilt: 200° /s		
Presets	ts		300		
PTZ 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, 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/MJPEG	
Streaming Capability	3 Streams	
Resolution	1080P(1920×1080)/1.3M(1280x960)/720P(1280× 720)/D1(704×576/704×480)/CIF(352×288/352×240	
Frame Rate	Main stream: 1080P/1.3M/720P(1~50/60fps)	
	Sub stream1: D1/CIF(1 ~ 25/30fps)	
	Sub stream2: 1080P/1.3M/720P (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	
Noise Reduction	Ultra DNR (2D/3D)	
Motion Detection	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/MPEG2-L2	
Network		
Ethernet	RJ-45 (10Base-T/100Base-TX)	
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 Method	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	

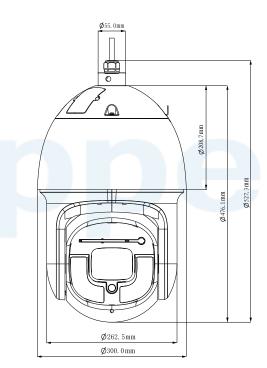
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Interface

interiace			
Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)		
RS485	1		
Audio Interface	1/1		
Alarm I/O	7/2		
Electrical			
Power Supply	AC 24V/5A(±25%), Hi-PoE		
Power Consumption	24W, 38W (IR on, Heater on)		
Environmental			
Operating Conditions	-40°C \sim 70°C (-40°F \sim +158°F) / Less than 95% RH		
Ingress Protection	IP67		
Vandal Resistance	N/A		
Construction			
Casing	Metal		
Dimensions	Φ300(mm) x 527.3(mm)		
Net Weight	13kg(28.66lb)		
Gross Weight	23.3kg(51.37lb)		

Wall Mount PFB710W+Mount adapter

Dimensions (mm)



Ordering Information

Туре	Part Number	Description
	DH-SD10A248V-HNI	2MP 48x Starlight IR PTZ Network Camera, WDR, PAL
	DH-SD10A248VN-HNI	2MP 48x Starlight IR PTZ Network Camera, WDR, NTSC
	SD10A248V-HNI	2MP 48x Starlight IR PTZ Network Camera, WDR, PAL
	SD10A248VN-HNI	2MP 48x Starlight IR PTZ Network Camera, WDR, NTSC
	PFB710W	Wall Mount
Accessories		Mount Adapter
	AC 24V/5A	Power Adapter

Accessories

Included:





PFB710W Wall Mount

Mount Adapter





Power Adapter AC24V/5A

