

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.



Technical Specification			Video			
Camera			Compression		H.265+/H.265/H.264+/ H.264/MJPEG	
Image Sensor	Image Sensor 1/1.9" CMOS			Streaming Capabi	lity	3 Streams
Effective Pixels 1920(H) x 1080(V), 2 Megapixels		ixels	Resolution		1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)	
RAM/ROM	1024	M/128M				Main stream: 1080P/1.3M/720P(1~50/60fps)
Scanning System P		Progressive		Frame Rate		Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed 1/1s		1/1s~1/30,000s				Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)
Minimum Illumination Color: 0.001Lux@F1.4; 0Lux@F1.4 (IR on)		Bit Rate Control		CBR/VBR		
S/N Ratio More than 55dB			Bit Rate		H.265/H.264: 448K ~ 8192Kbps	
IR Distance	Dista	Distance up to 450m (1476ft)		Day/Night		Auto(ICR) / Color / B/W
IR On/Off Control	Auto	Auto/Manual		Backlight Comper	sation	BLC / HLC / WDR(120dB)
IR LEDs	10	10		White Balance		Auto,ATW,Indoor,Outdoor,Manual
Lens				Gain Control		Auto / Manual
Focal Length	5.7m	m~275mm		Noise Reduction		Ultra DNR (2D/3D)
Max. Aperture	F1.4~	F1.4~ F4.5		Motion Detection		Support
Angle of View H: 6		.55° ~ 1.5°		Region of Interest		Support
Optical Zoom	48x	48x		Electronic Image Stabilization (EIS)		Support
Focus Control	Auto	Auto/Manual		Defog Defog		Support
Close Focus Distance 10		n~ 1500mm		Digital Zoom		16x
DORI Distance				Flip		180°
		eximity" of distance wh The DORI distance is ca		Privacy Masking		Up to 24 areas
	nd lab test result acc	ording to EN 62676-4 v		Audio		
Detect	Observe	Recognize	Identify	Compression		G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2
2731m(8960ft)	1092m (3583ft)	546m(1791ft)	273m(896ft)	Network		
PTZ				Ethernet		RJ-45 (10Base-T/100Base-TX)
Pan/Tilt Range	Pan: (Pan: 0° ~ 360° endless; Tilt: -30° ~ 90°, auto flip 180°				IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP,
Manual Control Speed		Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		Protocol		ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Preset Speed	Pan: 2	Pan: 240° /s; Tilt: 200° /s		Interoperability		ONVIF, PSIA, CGI
Presets	300	300		Streaming Metho	d	Unicast / Multicast
PTZ Mode	5 Patt	5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Max. User Access		20 users
Speed Setup	Huma	Human-oriented focal Length/ speed adaptation		Edge Storage		NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB
Power up Action		Auto restore to previous PTZ and lens status after power failure		Web Viewer		IE, Chrome, Firefox, Safari
Idle Motion	Activa	Activate Preset/ Scan/ Tour/ Pattern if there is no		Management Soft	tware	Smart PSS, DSS
		command in the specified period DH.SD. Pelco P/D (Auto recognition)		Smart Phone		IOS, Android
		DH-SD, Pelco-P/D (Auto recognition)		Certifications		
Intelligence Auto Tracking Supp		Support		Contitionti		CE: EN55032/EN55024/EN50130-4
, ato Hacking		Tripwire, Intrusion, Abandoned/Missing, Face		Certifications		FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1

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

IVS

Interface

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	Ф300(mm) x 527.3(mm)		
Net Weight	13kg(28.66lb)		
Gross Weight	23.3kg(51.37lb)		

Ordering Information

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Туре	Part Number	Description	
	DH-SD10A248V-HNI	2MP 48x Starlight IR PTZ Network Camera, WDR, PAL	
2MP PTZ	DH-SD10A248VN-HNI	2MP 48x Starlight IR PTZ Network Camera, WDR, NTSC	
Camera	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

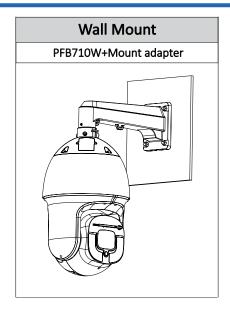


Mount Adapter

Optional:



AC24V/5A Power Adapter



Dimensions (mm)

