

DH-SD10A248V-HNI

2MP 48x Starlight IR PTZ Network Camera



- · 1/1.8" 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) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Spe	ecification			Auto Tracking	Support
Camera				IVS	Tripwire, Intrusion, Abandoned/Missing
Image Sensor		1/1.8" CMOS		Advanced Intelligent Functions	Face Detection, Heat Map
Effective Pixels		1920(H) x 1080(V), 2 Megapixels		Video	
RAM/ROM	102	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		Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240
Minimum Illumination		Color: 0.001Lux@F1.4; B/W: 0.0001Lux@F1.4; 0Lux@F1.4 (IR on)			Main stream: 1080P/1.3M/720P(1~50/60fps)
IR Distance	Dis	Distance up to 450m (1476ft)		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
IR On/Off Control	Aut	Auto/Manual			Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)
IR LEDs	10	10		Bit Rate Control	CBR/VBR
Smart Wiper	Sup	pport		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Lens				Day/Night	Auto(ICR) / Color / B/W
Focal Length 5.7		5.7mm~275mm		Backlight Compensation	BLC / HLC / WDR(120dB)
Max. Aperture F1		F1.4~ F4.5		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Angle of View	H: 0	H: 64.55° ~ 1.5°		Gain Control	Auto / Manual
Optical Zoom 48		48x		Noise Reduction	Ultra DNR (2D/3D)
Focus Control		Auto/Manual		Motion Detection	Support
Close Focus Distance		10mm~ 1500mm		Region of Interest	Support
DORI Distance				Electronic Image Stabilization (EIS)	Support
pinpoint the right of	camera for your need	proximity" of distance whi s. The DORI distance is ca according to EN 62676-4 w	culated based on	Defog	Support
criteria for Detect,	Observe, Recognize a	and Identify respectively.		Digital Zoom	16x
Detect	Observe	Recognize	Identify	Flip	180°
2731m(8960ft)	1092m (3583ft)	546m(1791ft)	273m(896ft)	Privacy Masking	Up to 24 areas
PTZ				Audio	
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -30° ~ 90°, auto flip 180°		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2
Manual Control Speed		Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		Network	
Preset Speed		Pan: 240° /s; Tilt: 200° /s		Ethernet	RJ-45 (10Base-T/100Base-TX)
		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,
Speed Setup		Human-oriented focal Length/ speed adaptation			DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1
Power up Action		Auto restore to previous PTZ and lens status after		Interoperability	ONVIF Profile S&G, API
		power failure Activate Preset/ Scan/ Tour/ Pattern if there is no		Streaming Method	Unicast / Multicast
Idle Motion		command in the specified period		Max. User Access	20 users NAS (Network Attached Storage),Local PC for
Protocol		DH-SD, Pelco-P/D (Auto recognition)		Edge Storage	instant recording, Micro SD card 256GB
Intelligence		Marian describe Video A		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
		mict, megai Access, Storag	se anomaly	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

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				
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:



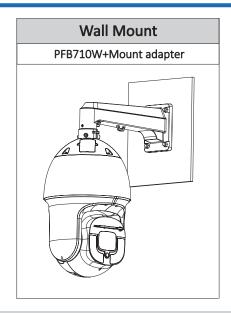




PFB710W Wall Mount



Mount Adapter



Dimensions (mm)

