

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

Ultra series adopts top-notch DSP and advanced image sensor, which can offer excellent image performance for different environmental applications. The series supports UHD image up to 4K resolution, large optical zoom up to 48x, ultra starlight and WDR, powerful pan/tilt/zoom performance and etc. It also supports smart plan, such as IVS, face detection, heatmap and auto-tracking. The monitoring range is larger than before, the series is ideal for use in city and perimeter surveillance. Meanwhile, it is fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard. The ultra series offers industry-leading IR capability of more than 200m.

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.

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 1		1/1.9" CMOS			Streaming Capability	3 Streams	
Effective Pixels 1		1920(H) x 1080(V), 2 Megapixels			Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)	
RAM/ROM		1024M/128M				Frame Rate	Main stream: 1080P/1.3M/720P(1~50/60fps)
Scanning System		Progressive					Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed		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		Distance up to 450m (1476ft)				Day/Night	Auto(ICR) / Color / B/W
IR On/Off Control		Auto/Manual				Backlight Compensation	BLC / HLC / WDR(120dB)
IR LEDs		10				White Balance	Auto,ATW,Indoor,Outdoor,Manual
Lens						Gain Control	Auto / Manual
Focal Length		5.7mm	n~275mm			Noise Reduction	Ultra DNR (2D/3D)
Max. Aperture		F1.4~ F	- 4.5			Motion Detetion	Support
Angle of View		H: 64.5	55° ~ 1.5°			Region of Interest	Support
Optical Zoom		48x				Electronic Image	Support
Focus Control		Auto/Manual				Stabilization (EIS)	
Close Focus Distanc	ce	10mm	~ 1500mm			Defog	Support
DORI Distance						Digital Zoom	16x
			kimity" of distance whi			Flip	180°
sensor specification	and lab test res	ult acco	he DORI distance is cal ording to EN 62676-4 w			Privacy Masking	Up to 24 areas
criteria for Detect, (criteria for Detect, Observe, Recognize and Identify respectively.			Audio			
Detect	Observe		Recognize	Identify		Compression	G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2
2731m(8960ft)	1092m (358	3ft)	546m(1791ft)	273m(896ft)		Network	
PTZ						Ethernet	RJ-45 (10Base-T/100Base-TX)
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -30° ~ 90°, auto flip 180°				Protocol	IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP,
Manual Control Spe	eed	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s				Interoperability	DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x ONVIF, PSIA, CGI
Preset Speed		Pan: 240° /s; Tilt: 200° /s				Streaming Method	Unicast / Multicast
Presets		300				Max. User Access	20 users
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan					NAS (Network Attached Storage),Local PC for
Speed Setup		Human-oriented focal Length/ speed adaptation				Edge Storage	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		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period				Management Software	Smart PSS, DSS
Protocol		DH-SD, Pelco-P/D (Auto recognition)				Smart Phone	IOS, Android
Intelligence				Certifications			
Auto Tracking		Support			Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	
		Tripwire, Intrusion, Abandoned/Missing, Face					UL: UL60950-1+CAN/CSA C22.2,No.60950-1

Tripwire, Intrusion, Abandoned/Missing, Face Detection

IVS

Interface

Video Interface	1
Audio Interface	1/1
RS485	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 Supply		

Accessories

Included:



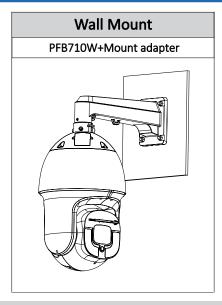




PFB710W Wall Mount



Mount Adapter



Dimensions (mm)

