

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 0.002lux. 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 start/stop 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.

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

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 ±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, and its IP67 ingress protection make it the choice for installation in even the most unforgiving environments.

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 Spec	cification			Video	
Camera				Compression	H.265 / H.264 / MJPEG
Image Sensor	1/1.9	1/1.9" CMOS		Streaming Capability	3 Streams
Effective Pixels	1920	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	RAM/ROM 1024M/128M			Main stream: 1080P/1.3M/720P(1~50/60fps)	
Scanning System Progressive		ressive		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Sp	hutter Speed 1/1s~1/300,000s			Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)	
Minimum Illuminatio	on Colo	Color: 0.001Lux@F1.4; 0Lux@F1.4 (IR on)		Bit Rate Control	CBR/VBR
S/N Ratio	More	More than 55dB		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR Distance	Dista	nce up to 450m (1476f	t)	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	5.7m	m~275mm		Noise Reduction	Ultra DNR (2D/3D)
Max. Aperture	F1.4	F4.5		Motion Detetion	Support
Angle of View	H: 64	H: 64.55° ~ 1.5°		Region of Interest	Support
Optical Zoom	48x			Electronic Image Stabilization (EIS)	Support
Focus Control	Auto	Auto/Manual		Defog	Support
Close Focus Distance	e 10m	10mm~ 1500mm		Digital Zoom	16x
DORI Distance				Flip	180°
*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.		Privacy Masking Audio	Up to 24 areas		
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 (10/100Base-T)
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, DNS,PPP0E,DDNS,FTP, IP Filter,QoS,Bonjour,802.1)
Manual Control Spee		Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		Interoperability	ONVIF, PSIA, CGI
Preset Speed		Pan: 240° /s; Tilt: 200° /s		Streaming Method	Unicast / Multicast
Presets 300				Max. User Access	20 users
		5 Pattern, 8 Tour, Auto Pan ,Auto Scan Human-oriented focal Length/ speed adaptation		Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB
Auto		Auto restore to previous PTZ and lens status after		Web Viewer	IE, Chrome, Firefox, Safari
Power up Action		power failure		Management Software	Smart PSS, DSS
IGIE MODOU		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Smart Phone	IOS, Android
Protocol D		DH-SD, Pelco-P/D (Auto recognition)		Certifications	
Intelligence				CE: EN55032/EN55024/EN50130-4	
Auto Tracking Sup		Support		Certifications	FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1
IVS Tripwire, In Detection		vire, Intrusion, Abandor ction	ned/Missing, Face		

Ultra Series | DH-SD10A248V-HNI

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Video Interface	1
Audio Interface	1/1
RS485	1
Alarm I/O	7/2

Electrical

Power Supply	AC 24V/3A(±25%), Hi-PoE
Power Consumption	24W, 38W (IR on, Heater on)

Environmental

Operating Conditions	-40°C ~ 70°C (-40°F ~ +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	20kg(44.09lb)

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:



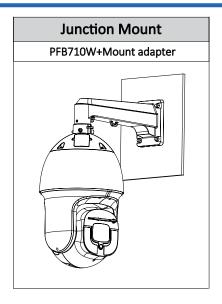




PFB303W Wall Mount



Mount Adapter



Dimensions (mm)

