

DH-SD10A848VA-HNF

4K 48x Starlight IR PTZ Network Camera



- · 1/1.8" 8Megapixel STARVIS™ CMOS
- · Powerful 48x optical zoom
- · Starlight technology
- · Max. 25/30fps@4K
- · Support Hi-PoE
- · IR distance up to 450m
- · Smart wiper
- · 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 0.002lux. 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 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 ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. TVS 8KV lightning protection rating provides lightning protection, surge protection and voltage transient protection.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) 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	1/1.8"	1/1.8" STARVIS™ CMOS		Streaming Capability	3 Streams
Effective Pixels		3840(H) x 2160(V), 8 Megapixels		Resolution	4K(3840x2160)/1080P(1920×1080)/1.3M(1280x 960)/720P(1280×720)/D1(704×576/ 704×480)/ CIF(352×288/352×240)
Scanning System	nning System Progressive				Main stream: 4K(1~25/30fps), 1080P/1.3MP/720P
Electronic Shutter Spe	Electronic Shutter Speed 1/1s~1/30,000s			Frame Rate	(1~50/60fps)
Minimum Illumination	Minimum Illumination Color: 0.002Lux@F1.4; 0Lux@F1.4 (IR on)		@F1.4 (IR on)		Sub stream1: D1/CIF(1 ~ 25/30fps)
S/N Ratio	More t	More than 55dB			Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)
IR Distance	Distan	Distance up to 450m (1476ft)		Bit Rate Control	CBR/VBR
IR On/Off Control	Auto/f	Manual		Bit Rate	H.265/H.264: 256K ~ 8192Kbps
IR LEDs	10			Day/Night	Auto(ICR) / Color / B/W
Smart Wiper	Suppo	rt		Backlight Compensation	BLC / HLC / WDR(120dB)
Lens				White Balance	Auto, ATW, Indoor, Outdoor, Manual
Focal Length	5.7mm	5.7mm~275mm		Gain Control	Auto / Manual
Max. Aperture	F1.4~ I	F1.4~ F4.5		Noise Reduction	Ultra DNR (2D/3D)
Angle of View	H: 64.5	55° ~ 1.5°		Motion Detection	Support
Optical Zoom	48x			Region of Interest	Support
Focus Control	Focus Control Auto/Manual			Electronic Image Stabilization (EIS)	Support
Close Focus Distance	10mm			Defog	Support
DORI Distance				Digital Zoom	16x
*Note: The DORI dista				Flip	180°
pinpoint the right cam sensor specification ar criteria for Detect, Obs	nd lab test result acco	ording to EN 62676-4	which defines the	Privacy Masking	Up to 24 areas
Detect	Observe	Recognize	Identify	Audio	
4980m(16338ft)	1992m(6535ft)	996m(3267ft)	498m(1470ft)	Compression	G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2
PTZ				Network	
Pan/Tilt Range	Pan: 0	° ~ 360° endless; Tilt:	-30° ~ 90°,auto flip 180°	Ethernet	RJ-45 (10Base-T/100Base-TX)
Manual Control Speed		0.1° ~200° /s; Tilt: 0.1° ~120° /s		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
Preset Speed		Pan: 240° /s; Tilt: 200° /s		Interoperability	ONVIF, PSIA, CGI
Presets	300	600		Streaming Method	Unicast / Multicast
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Max. User Access	20 users
		Human-oriented focal Length/ speed adaptation			NAS (Network Attached Storage),Local PC for
Power un Action		Auto restore to previous PTZ and lens status after power failure		Edge Storage	instant recording, Micro SD card 128GB
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Web Viewer	IE, Chrome, Firefox, Safari
Protocol	DH-SD	DH-SD, Pelco-P/D (Auto recognition)		Management Software	Smart PSS, DSS
Intelligence			Smart Phone	IOS, Android	
-		Support		Certifications	
IVS Tripw		Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map		Certifications	CE: EN55032/EN55024/EN50130-4 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 (mm)
Net Weight	13kg(28.66lb)
Gross Weight	23.3kg(51.37lb)

Ordering Information				
Туре	Part Number	Description		
	DH-SD10A848VA-HNF	4K 48x Starlight IR PTZ Network Camera, WDR, PAL		
4K PTZ	DH-SD10A848VAN-HNF	4K 48x Starlight IR PTZ Network Camera, WDR, NTSC		
Camera	SD10A848VA-HNF	4K 48x Starlight IR PTZ Network Camera, WDR, PAL		
	SD10A848VAN-HNF	4K 48x Starlight IR PTZ Network Camera, WDR, NTSC		
	PFB710W	Wall Mount		
Accessories		Mount Adapter		
	AC 24V/5A	Power Adapter		

Accessories

Included:



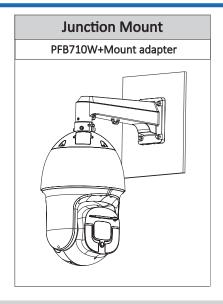




PFB710W Wall Mount



Mount Adapter



Dimensions (mm)

