

DH-SD50430U-HNI

4MP 30x PTZ Network Camera



- · 1/3" 4Megapixel CMOS
- · Powerful 30x optical zoom
- · H.265 Encoding
- Max. 25/30fps@4M/3M, 25/30/50/60fps@1080P
- · Auto-tracking and IVS
- · Support PoE+
- · IP67, IK10













System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, the camera can provide large monitoring range and great detail. It is equipped with quick and smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Functions

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 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 +60 °C (-40 °F to +140 °F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 6KV 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 Sne	cification					Auto Tracking	Support
Technical Specification Camera							
		1/3" CMOS			VS	Tripwire, Intrusion, Abandoned/Missing	
Image Sensor				امر		Advanced Intelligent Functions	Face Detection, Heat Map
Effective Pixels		2592(H) x 1520(V), 4 Megapixels		٧	/ideo		
RAM/ROM		1024M/128M		C	Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)	
Scanning System		Progressive		S	Streaming Capability	3 Streams	
Electronic Shutter Speed		1/1s~1/30,000s		R	Resolution	4M(2592×1520)/3M(2304×1296)/1080P(1920× 1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)	
Minimum Illumination		Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6					
IR Distance		N/A			Frame Rate	Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/720P(1~50/60fps)	
IR On/Off Control		N/A		F		Sub stream1: D1/CIF(1 ~ 25/30fps)	
IR LEDs		N/A				Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)	
Lens					В	Bit Rate Control	CBR/VBR
Focal Length		4.5mm~135mm		В	Bit Rate	H.265/H.264: 448K ~ 8192Kbps	
Max. Aperture		F1.6 ~ F4.4		С	Day/Night	Auto(ICR) / Color / B/W	
Angle of View		H: 60° ~ 2.2°		В	Backlight Compensation	BLC / HLC / WDR (120dB)	
Optical Zoom		30x		V	White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Focus Control		Auto/Manual		G	Gain Control	Auto / Manual	
Close Focus Distance		100mm~ 1000mm		N	Noise Reduction	Ultra DNR (2D/3D)	
DORI Distance			N	Motion Detection	Support		
*Note: The DORI distance is a "general proximity" of distance which makes it easy to			R	Region of Interest	Support		
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.				Electronic Image Stabilization EIS)	Support		
Detect Observe			Recognize	Identify	С	Defog	Support
2700m(8858ft)	2700m(8858ft) 1080m(3543ft)		540m(1772ft)	270m(886ft)	С	Digital Zoom	16x
PTZ					F	lip	180°
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: 0° ~ 90°, auto flip 180°		Р	Privacy Masking	Up to 24 areas	
Manual Control Spe	eed	Pan: 0.1° ~350° /s; Tilt: 0.1° ~250° /s		A	Audio		
Preset Speed		Pan: 500° /s; Tilt: 500° /s		C	Compression	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2	
Presets		300		N	Network		
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Е	Ethernet	RJ-45 (10Base-T/100Base-TX)	
Speed Setup		Human-oriented focal Length/ speed adaptation Auto restore to previous PTZ and lens status after		Р	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	
Power up Action		power failure		lı	nteroperability	ONVIF Profile S&G, API	
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			streaming Method	Unicast / Multicast	
Protocol		DH-SD		N	Max. User Access	20 users	
Intelligence				E	Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB	
		Motion detection, Video tampering , Scene		V	Web Viewer	IE, Chrome, Firefox, Safari	
Event Trigger		changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		N	Management Software	Smart PSS, DSS, DMSS	

Smart Phone

IOS, Android

Certifications

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	N/A
R\$485	N/A
Audio I/O	1/1
Alarm I/O	2/1

Electrical

Power Supply	AC24V/1.5A(±10%), PoE+(802.3at)
Power Consumption	13W,23W (Heater on)

Environmental

Operating Conditions	-40°C $^{\sim}$ 60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH		
Ingress Protection	IP67		
Vandal Resistance	IK10		

Construction

Casing	Metal
Dimensions	Ф186(mm) x 253(mm)
Net Weight	2.5kg(5.51lb)
Gross Weight	4.5kg(9.92lb)

Ordering Information

Туре	Part Number	Description
4MP PTZ Camera	DH-SD50430U-HNI	4MP 30x PTZ Network Camera, WDR, PAL
	DH-SD50430UN-HNI	4MP 30x PTZ Network Camera, WDR, NTSC
	SD50430U-HNI	4MP 30x PTZ Network Camera, WDR, PAL
	SD50430UN-HNI	4MP 30x PTZ Network Camera, WDR, NTSC
	PFB300S	Wall Mount
	PFA110	Mount Adapter
	AC24V/1.5A	Power Adapter
	PFA140	Power Box
Accessories	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet Mount

Accessories

Included:



PFB300S Wall Mount



PFA110 Mount Adapter



AC24V/1.5A Power Adapter

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Pole Mount	Corner Mount	Parapet Mount
Ceiling Mount		Junction Mount
PFA110 + PFB300C		PFA110 + PFB300S + PFA120
Power Box Mount	t	Pole Mount
PFA110 + PFB300S + PFA1	L40	PFA110 + PFB300S + PFA150
Corner Mount		Parapet Mount
PFA110 + PFB300S + PFA	151	PFA110 + PFB303S

Dimensions (mm)



