

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

Pro series adopts powerful DSP and image sensor, which can offer great image performance. It supports excellent optical zoom with autofocus and provides highly detailed zoomed-in views. With upgraded smart H.265 encoding technology, this series achieves high-efficient video stream compression, and enhance the monitoring system by saving network bandwidth and storage capacity. Suitable for both indoor and outdoor environment, this series enables 360° endless pan for wide area coverage. The pro series offers industry-leading IR capability of up to 200m.

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.

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 making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. 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) 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		
Image Sensor	mage Sensor 1/3" CMOS				Streaming Capability	3 Streams	
Effective Pixels 2592(H) x 1520(V), 4 Megapixels				Resolution	4M(2592×1520)/3M(2304×1296)/1080P(1920×		
RAM/ROM 1024M/128M					1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)		
Scanning System Progressive						Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/720P(1~50/60fps)	
Electronic Shutter Speed 1/1s~1/30,000s			0,000s		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)	
Minimum Illumination Color: 0			olor: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6			Sub stream2: 4M/1080P/1.3M/720P/D1/CIF (1~25/30fps)	
S/N Ratio More than 55dB				Bit Rate Control	CBR/VBR		
IR Distance	ı	N/A				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR On/Off Control	ı	N/A				Day/Night	Auto(ICR) / Color / B/W
IR LEDs N/A		N/A				Backlight Compensation	BLC / HLC / WDR (120dB)
Lens					White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Focal Length	4	4.5mm~135	5mm			Gain Control	Auto / Manual
Max. Aperture F1.6 ~ F4.4			i .			Noise Reduction	Ultra DNR (2D/3D)
Angle of View H: 60° ~ 2.2°					Motion Detetion	Support	
Optical Zoom 30x						Region of Interest	Support
Focus Control	,	Auto/Manual				Electronic Image	Support
Close Focus Distanc	ce 1	100mm~ 10	.00mm~ 1000mm			Stabilization (EIS) Defog	Support
DORI Distance							16x
*Note: The DORI di pinpoint the right c						Digital Zoom	180°
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.				Flip Privacy Masking	Up to 24 areas		
Detect	Observe		Recognize Identify			Audio	Op to 24 dieas
2700m(8858ft)	1080m(3543ft	t) 540	10m(1772ft)	270m(886ft)		Auuio	G.711a/G.711Mu/AAC/G.722 / G.726/G.729/
PTZ						Compression	MPEG2-L2
Pan/Tilt Range	F	Pan: 0° ~ 36	60° endless; Tilt: 0°	~ 90°,auto flip 180°		Network	
Manual Control Spe	eed F	Pan: 0.1° ~350° /s; Tilt: 0.1° ~250° /s				Ethernet	RJ-45 (10Base-T/100Base-TX)
Preset Speed	F	Pan: 500° /s; Tilt: 500° /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
Presets		300				Interoperability	ONVIF, PSIA, CGI
PTZ Mode		5 Pattern, 8	8 Tour, Auto Pan ,Aı	uto Scan		Streaming Method	Unicast / Multicast
Speed Setup		Human-oriented focal Length/ speed adaptation				Max. User Access	20 users
Power up Action		Auto restore to previous PTZ and lens status after power failure				Edge Storage	NAS (Network Attached Storage),Local PC for 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				Management Software	Smart PSS, DSS
Intelligence					Smart Phone	IOS, Android	
Auto Tracking		Support				Certifications	
		Tripwire, Intrusion, Abandoned/Missing, Face Detection				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
Audio Interface	1/1
RS485	N/A
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 ~ 60°C (-40°F ~ +140°F) / Less than 90% 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
	DH-SD50430U-HNI	4MP 30x PTZ Network Camera, WDR, PAL
4MP PTZ	DH-SD50430UN-HNI	4MP 30x PTZ Network Camera, WDR, NTSC
Camera	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 Supply
	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 Supply

Optional:



PFA140 Power box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

	rarapet mount
Ceiling Mount	Junction Mount
PFA110 + PFB300C	PFA110 + PFB300S + PFA120
Power Box Mount	Pole Mount
PFA110 + PFB300S + PFA140	PFA110 + PFB300S + PFA150
Corner Mount	Parapet Mount
PFA110 + PFB300S + PFA151	PFA110 + PFB303S

Dimensions (mm)



