

DH-SD52C430U-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+
- · 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 -30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) with 95% humidity. The camera complies with the IK10 Vandal Resistance impact rating.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the most unstable conditions for 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) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification			Auto Tracking		Support	
Camera		IVS		Tripwire, Intrusion, Abandoned/Missing		
Image Sensor 1/3" CMOS		Advanced Intellig	gent Functions	Face Detection, Heat Map		
Effective Pixels 2592(H) x 1520(V), 4 Megapixels		Video				
RAM/ROM 1024M/128M		Compression		H.265+/H.265/H.264+/H.264		
Scanning System Progressive		Streaming Capab	pility	3 Streams		
Electronic Shutter Speed 1/1s~1/30,000s			Danah dian		4M(2592×1520)/3M(2304×1296)/1080P(1920×	
Minimum Illumination Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6		Resolution		1080)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)		
S/N Ratio More than 55dB				Main stream: 4M/3M(1~25/30fps), 1080P/1.3M/720P(1~50/60fps)		
IR Distance	N/A	N/A		Frame Rate		Sub stream1: D1/CIF(1 ~ 25/30fps)
IR On/Off Control	N/A	N/A				Sub stream2: 4M/1080P/1.3M/720P/D1/CIF (1~25/30fps)
IR LEDs	N/A	I/A		Bit Rate Control		CBR/VBR
Lens				Bit Rate		H.265/H.264: 448K ~ 8192Kbps
Focal Length 4.5m		m~135mm		Day/Night		Auto(ICR) / Color / B/W
Max. Aperture	F1.6 °	F4.4		Backlight Compe	ensation	BLC / HLC / WDR (120dB)
Angle of View H: 60°		H: 60° ~ 2.2°		White Balance		Auto, ATW, Indoor, Outdoor, Manual
Optical Zoom 30x		30x		Gain Control		Auto / Manual
Focus Control Au		Auto/Manual		Noise Reduction		Ultra DNR (2D/3D)
Close Focus Distance 10		100mm~ 1000mm		Motion Detectio	n	Support
DORI Distance			Region of Interes	st	Support	
*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			Electronic Image (EIS)	Stabilization	Support	
		ording to EN 62676-4 w d Identify respectively.	INICH DEFINES THE	Defog		Support
Detect	Observe	Recognize	Identify	Digital Zoom		16x
2700m(8858ft)	1080m(3543ft)	540m(1772ft)	270m(886ft)	Flip		180°
PTZ				Privacy Masking		Up to 24 areas
Pan/Tilt Range	Pan: (0° ~ 360° endless; Tilt: 0	° ~ 90°,auto flip 180°	Audio		
Manual Control Spee	ed Pan: 0	Pan: 0.1° ~350° /s; Tilt: 0.1° ~250° /s		Compression		G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2
Preset Speed	Pan: 5	Pan: 500° /s; Tilt: 500° /s		Network		WII EGZ EZ
Presets		300		Ethernet		RJ-45 (10Base-T/100Base-TX)
PTZ Mode		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Linemet		IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP,
Speed Setup		Human-oriented focal Length/ speed adaptation		Protocol		ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Power up Action		Auto restore to previous PTZ and lens status after power failure		Interoperability		ONVIF Profile S&G, API
		Activate Preset/ Scan/ Tour/ Pattern if there is no		Streaming Metho	od	Unicast / Multicast
Idle Motion		command in the specified period		Max. User Acces	S	20 users
Protocol D		DH-SD		Edge Storage		NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB
Intelligence		Web Viewer		IE, Chrome, Firefox, Safari		
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly		Management So	ftware	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
RS485	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

Environmental

Operating Conditions	-30°C $^{\sim}$ 60°C (-22°F $^{\sim}$ +140°F) / Less than 95% RH
Ingress Protection	N/A
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	Ф198(mm) x 177(mm)
Net Weight	2.2kg(4.85lb)
Gross Weight	3.7kg(8.16lb)

Ordering Information

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Туре	Part Number	Description		
	DH-SD52C430U-HNI	4MP 30x PTZ Network Camera, WDR, PAL		
4MP PTZ	DH-SD52C430UN-HNI	4MP 30x PTZ Network Camera, WDR, NTSC		
Camera	SD52C430U-HNI	4MP 30x PTZ Network Camera, WDR, PAL		
	SD52C430UN-HNI	4MP 30x PTZ Network Camera, WDR, NTSC		
Accessories	AC24V/1.5A	Power Adapter		

Accessories

Included:



AC24V/1.5A Power Adapter

Dimensions (mm)



