

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 ~ 60°C (-22°F ~ +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.



Pro Series | DH-SD52C430U-HNI

Technical Specification

Camera

Image Sensor	1/3" CMOS
Effective Pixels	2592(H) x 1520(V), 4 Megapixels
RAM/ROM	1024M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.05Lux@F1.6; B/W: 0.005Lux@F1.6
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A
Lens	
Focal Length	4.5mm~135mm

Max. Aperture	F1.6 ~ F4.4
Angle of View	H: 60° ~ 2.2°
Optical Zoom	30x
Focus Control	Auto/Manual
Close Focus Distance	100mm~ 1000mm

DORI Distance

*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.

Detect	Observe		Recognize	Identify	
2700m(8858ft)	1080m(3543ft)		540m(1772ft)	270m(886ft)	
PTZ					
Pan/Tilt Range	/Tilt Range Pa		Pan: 0° ~ 360° endless; Tilt: 0° ~ 90°,auto flip 180°		
Manual Control Speed Pan:		Pan: 0.	an: 0.1° ~350° /s; Tilt: 0.1° ~250° /s		
Preset Speed	ed Pan: 5		an: 500° /s; Tilt: 500° /s		
Presets 300		300	300		
PTZ Mode 5		5 Pattern, 8 Tour, Auto Pan ,Auto Scan			
Speed Setup		Human-oriented focal Length/ speed adaptation			
Power up Action		Auto restore to previous PTZ and lens status after power failure			
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period			
Protocol		DH-SD			
Intelligence					
Event Trigger		Motion detection, Video tampering , Scene changing, Network disconnection, IP address conflict, Illegal Access, Storage anomaly			

IVSTipwire, Intrusion, Abandoned/MissingAdvanced Intelligent FunctionsFace Detection, Heat MapVideoH.265/H.264/H.264/MJPEG(Sub Stream)Streaming Capability3 StreamsBesolutionMIG5252-1520/3M(2304-1296/12008/11920/stream)International CapabilityStreamsParaming CapabilityStreamsMain stream: 4M/3M(12-55/30fps), 1080P/1.3M/ 220P(15/06/65)s)Farme RateSub Stream2: 1080P/1.3M//220P/D1/CIF (125/30fps)Bit Rate ControlCBR/VBRBit Rate ControlAuto(ICR) / Color / B/WBacklight CompensationBLC / HLC / WDR (120dB)White BalanceAuto, ATW, Indoor, Outdoor, ManualGain ControlUtra DNR (2D/3D)Motion DetectionSupportIelectronic Image StabilizationSupportIelectronic Image StabilizationSupportIelectronic Image StabilizationSupportProtocolSupport	Auto Tracking	Support
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ProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1xInteroperabilityONVIF Profile S&G, APIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageNAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSS	Network	
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Streaming Method Unicast / Multicast Max. User Access 20 users Edge Storage NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS	Protocol	ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP,
Max. User Access 20 users Edge Storage NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS	Interoperability	ONVIF Profile S&G, API
Edge StorageNAS (Network Attached Storage),Local PC for instant recording, Micro SD card 256GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSS, DMSS	Streaming Method	Unicast / Multicast
Edge Storage instant recording, Micro SD card 256GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS, DMSS	Max. User Access	20 users
Management Software Smart PSS, DSS, DMSS	Edge Storage	
	Web Viewer	IE, Chrome, Firefox, Safari
Smart Phone IOS, Android	Management Software	Smart PSS, DSS, DMSS
	Smart Phone	IOS, Android

Pro Series | DH-SD52C430U-HNI

Certifications

CertificationsCE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1InterfaceVideo InterfaceN/A
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
Environmental
Operating Conditions $-30^{\circ}C \sim 60^{\circ}C (-22^{\circ}F \sim +140^{\circ}F)$ / Less than 95% RH
Ingress Protection N/A
Vandal Resistance IK10
Construction
Casing Metal
Dimensions Φ 198(mm) x 177(mm)
Net Weight 2.2kg(4.85lb)

Ordering Information

Туре	Part Number	Description
4MP PTZ Camera	DH-SD52C430U-HNI	4MP 30x PTZ Network Camera, WDR, PAL
	DH-SD52C430UN-HNI	4MP 30x PTZ Network Camera, WDR, NTSC
	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)



