

# 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
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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
Viteo       Compression     H.265/H.265/H.264/H.264/MJPEG(Sub Stream)       Streaming Capability     3 Streams       Resolution     Streams       Resolution     Main Stream: Any/259/MI/230A:1296/J080P(1920c 1080/J720P(1280x720)/D1/04×576/704×480)/ CIF(352×288/352×240)       Frame Rate     Main stream: Any/30(1*25/30fps)       Frame Rate     Main stream: Any/30(1*25/30fps)       Bit Rate Control     CBR/VBR       Bit Rate     H.265/H.264: 448K ~ 8192Kbps       Bit Rate     H.265/H.264: 448K ~ 8192Kbps       Bit Rate     Main Stream: D10/CIF(1 ~ 25/30fps)       Bit Rate     Main Stream: 21000P1.3M/720P/D1/CIF (1*25/30fps)       Bit Rate     Main Stream: 2100P1.3M/720P/D1/CIF       Bit Rate     Main Stream: 2000P1.3M/720P/D1/CIF       Bit Rate     Auto(ICR) / Color / B/W       Backlight Compensation     BLC / HLC / WDR (120B8)       White Balance     Subport       Region of Interest     Support	IVS	Tripwire, Intrusion, Abandoned/Missing
Compression H.265+/H.265/H.264+/H.264/MJPEG(sub Stream)   Streaming Capability 3 Streams   Resolution M/2592+1520/JM(230A+1296)/1080P(1920+ 1080//720P(1250A>20P(1070A>56/704+480)/ CIF(352×288/352×240)   Frame Rate Main stream: 4M/3M(1*25/30fps).   Frame Rate Sub stream1: D1/CIF(1* 25/30fps)   Bit Rate Control CBR/VBR   Bit Rate H.265/H.264:448K ~ 8192Kbps   Day/Night Auto(ICR) / Color / B/W   Backlight Compensation BLC / HLC / WDR (120dB)   White Balance Auto / Manual   Noise Reduction Ultra DNR (2D/30)   Motion Detection Support   Electronic Image Stabilization (Els) Support   Frip 180°   Privacy Masking Up to 24 areas   Privacy Masking Up to 24 areas   Protocol Support   Ethernet R-45 (10Base-T/300Base-TX)   Protocol IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPP, ICPV, IDNP, NTP, NTP, DHCP, IDNS, PATP, INTP, NTP, DHCP, IDNS, PATP, NTP, NTP, DHCP, IDNS, PATP, INTP,	Advanced Intelligent Functions	Face Detection, Heat Map
Streaming Capability 3 Streams   Resolution 4M(2592×1520)/3M(2304×1296)/1080P(1920× 1080)/720P(1280×720)/01(704×576/704×480)/ CIF(352×288/352×240)   Frame Rate 4M/3 in stream: 4M/3M(1~25/30fps), 1080P/1.3M/ 720P(1~25/30fps)   Frame Rate Sub stream1: D1/CIF(1~25/30fps), 1080P/1.3M/ 720P(1~25/30fps)   Bit Rate Control CBR/VBR   Bit Rate H.265/H.264: 448K ~ 8192Kbps   Day/Night Auto(ICR) / Color / B/W   Backlight Compensation BLC / HLC / WDR (1200B)   White Balance Auto, ATW, Indoor, Outdoor, Manual   Gain Control Auto / Manual   Noise Reduction Ultra DNR (2D/3D)   Motion Detection Support   Electronic image Stabilization (ES) Support   Digital Zoom 16x   Flip 180°   Privacy Masking Up to 24 areas   Autoin Support   Compression G.7113/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-12   Pretocol Privacy/Mescing   Protocol Unicast / Multicast   Interoperability ONVIF Profile S&G, API   Streaming Method Unicast / Multicast   Kau. User Access 20 users   Edge Storage Ka (Network Attached Storage).Local PC for instant recording. Micro SD ard 256GB   Web Viewer Ic, Chrome, Firefox,	Video	
Resolution   4M(2592×1520)/3M(2304×1296)/1080P(1920: 1080)/720P(1280×720)/D1/C4+576/704×480)/ CF(352×284)/352×240)     Frame Rate   Sub stream: 4M/3M(1~25/30fps), 1080P/1.3M/ 720P(1~50/60fps)     Bit Rate   Sub stream: 21080P/1.3M/720P/D1/CIF (1~25/30fps)     Bit Rate   ML265/H.264: 448K ~ 8192Kbps     Day/Night   Auto(ICR) / Color / B/W     Backlight Compensation   BLC / HLC / WDR (120dB)     White Balance   Auto, ATW, Indoor, Outdoor, Manual     Gain Control   Ultra DNR (2D/3D)     Motion Detection   Support     Region of Interest   Support     Electronic Image Stabilization (EIS)   Support     Digital Zoom   16x     Flip   180°     Privacy Masking   Up to 24 areas     Autoi   Support     Compression   Sc7113(G.711Mu/AAC/G.722 / G.726/G.729/ MEG2-L2     Network   Flip     Protocol   ICM/IGMM SMMR RTSP, RTS SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP TTPS, SNT, TCP/IP, UDP, UDP, UPA     Protocol   ICM/IGMM SMMR RTSP, RTS SMTP,	Compression	H.265+/H.265/H.264+/H.264/MJPEG(Sub Stream)
Resolution   1080//720P12280×720//01/704×576/704×480// CT(53528240)     Frame Rate   Sub stream: AM/3M(1~25/30fps), 1080P/1.3M// 720P(1~50/60fps))     Bit Rate Control   CBR/VBR     Bit Rate Control   CBR/VBR     Bit Rate   H.265/H.264: 448K ~ 8192Kbps     Day/Night   Auto(ICR) / Color / B/W     Backlight Compensation   BLC / HLC / WDR (120dB)     White Balance   Auto, ATW, Indoor, Outdoor, Manual     Gain Control   Auto / Manual     Noise Reduction   Ultra DNR (2D/3D)     Medion Detection   Support     Region of Interest   Support     Defog   Support     Digital Zoom   16x     Flip   180°     Privacy Masking   Up to 24 areas     Audio   Medionse-TX)     Compression   G.711a/G.711Mu/AAC/G.722 / G.726/G.729/     Protocol   IP4/IPv6, HTTP, HTTPS, SLT, CP/IP, UDP, UDP, UDP, DP, DP, DP, DP4/IPV6, HTTP, HTTPS, SLT, CP/IP, UDP, UDP, UDP, DP, DP, DP4/IPV6, HTTP, HTTPS, SLT, CP/IP, UDP, DP, CP, DP5, DNS, PTPO, IDF, MP, NP, PTP, DPC, DNS, PTP, IP Filter, QoS, Bonjour, 802.1x     Interoperability   ONVIF Profile S&G, API     Streaming Method   Unicast / Multicast     Max. User Access <t< td=""><td>Streaming Capability</td><td>3 Streams</td></t<>	Streaming Capability	3 Streams
Frame Rate     5ub stream1: D1/CIF(1 ~ 25/30fps)       Bit Rate Control     CBR/VBR       Bit Rate     H.265/H.264: 448K ~ 8192Kbps       Day/Night     Auto(ICR) / Color / B/W       Backlight Compensation     BLC / HLC / WDR (120dB)       White Balance     Auto, ATW, Indoor, Outdoor, Manual       Gain Control     Auto, ATW, Indoor, Outdoor, Manual       Motion Detection     Support       Region of Interest     Support       Electronic Image Stabilization     Support       Digital Zoom     16x       Flip     180°       Privacy Masking     Up to 24 areas       Compression     G.7111A(G.711MU/AAC/G.722 / G.725/G.729/ MPEG2-L2       Ethernet     RJ-45 (10Base-T/JIOBBase-T/J)       Protocol     IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1X       Interoperability     ON VIF Profile S&G, API       Streaming Method     Unicast / Multicast       Max. User Access     20 users       Edge Storage     INAS (Network Attached Storage), Local PC for Instant recording, Micro SD card 256GB       Web Viewer     E, Chrome, Firefox, Safari	Resolution	1080)/720P(1280×720)/D1(704×576/704×480)/
Bit State Control     Sub stream2: 1080P/1.3M/720P/D1/CIF       Bit Rate Control     CBR/VBR       Bit Rate     H.265/H.264: 448K ~ 8192Kbps       Day/Night     Auto(ICR) / Color / B/W       Backlight Compensation     BLC / HLC / WDR (120dB)       White Balance     Auto, ATW, Indoor, Outdoor, Manual       Gain Control     Auto, ATW, Indoor, Outdoor, Manual       Noise Reduction     Ultra DNR (2D/3D)       Motion Detection     Support       Region of Interest     Support       Electronic Image Stabilization (EIS)     Support       Digital Zoom     16x       Flip     180*       Privacy Masking     Up to 24 areas       Audio     SupPort_       Compression     G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ MPEG2-L2       Network     Interoperability       Protocol     IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPNP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x       Interoperability     ONVIF Profile S&G, API       Streaming Method     Unicast / Multicast       Max. User Access     20 users       Edge Storage     NAS (Network Attached Storage).Local PC for instant recording, Micro SD card 25G		
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CompressionMPEG2-L2NetworkEthernetRJ-45 (10Base-T/100Base-TX)ProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPP, 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	Audio	
EthernetRJ-45 (10Base-T/100Base-TX)ProtocolIPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UDP, UDP, DNP, 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	Compression	
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	
Protocol   ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x     Interoperability   ONVIF Profile S&G, API     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	Ethernet	RJ-45 (10Base-T/100Base-TX)
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 $\Phi$ 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)



