

DH-SD6AE830V-HNI

4K 30x IR PTZ Network Camera



- · 1/1.7" 12Megapixel STARVIS™ CMOS
- · Powerful 30x optical zoom
- · H.265 Encoding
- · Max. 30fps@4K, 50/60fps@1080P
- · Auto tracking and IVS
- · Support Hi-PoE
- $\cdot\,$ IR distance up to 200m
- · IP67, IK10



System Overview

Featuring with powerful optical zoom and accurate pan/tilt/zoom performance, the SD6AE series PTZ camera can provide large monitoring range and great detail. The camera delivers 4K resolution at 25/30 fps, with 30x optical zoom. It combines a day/night mechanical IR cut filter for the highest image quality for variable lighting conditions during the day and night.

Functions

Auto-tracking

The camera supports auto-tracking. The tracking action can be triggered manually or automatically by defined rules. Once rules are triggered, the camera can zoom in and track the defined target automatically.

H.265

The camera supports H.265 encoding, which provides a savings of more than 50% of bandwidth and storage compared with H.264. This technology can help our customers to reduce the cost of the project and improve the transmission efficiency.

Environmental

With a temperature range of -40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. The camera complies an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection

Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protectection against the camera and its structure from the effects of 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.



Ultra Series | DH-SD6AE830V-HNI

Technical Specification

Camera	
Image Sensor	1/1.7" STARVIS™ CMOS
Effective Pixels	3840(H) x 2160(V), 8 Megapixels
RAM/ROM	1024M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/300,000s
Minimum Illumination	Color: 0.05Lux@F1.6; 0Lux (IR on)
S/N Ratio	More than 56dB
IR Distance	Distance up to 200m (656ft)
IR On/Off Control	Auto/Manual
IR LEDs	10
Lens	
Focal Length	6mm~180mm
Max. Aperture	F1.6 ~ F4.8
Angle of View	H: 61.2° ~ 2.1°
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	
3892m(12769ft)	1557m(5108ft)		778m(2552ft)	389m(1276ft)	
PTZ					
Pan/Tilt Range		Pan: 0	° ~ 360° endless; Tilt: -2	0° ~ 90°,auto flip 180°	
Manual Control Speed Par		Pan: 0.	Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s		
Preset Speed		Pan: 24	40° /s; Tilt: 200° /s		
Presets	300		300		
PTZ Mode	de 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, Pelco-P/D (Auto recognition)			
Intelligence					
Auto Tracking Su		Suppo	Support		
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection			

CompressionH.265/H.264/MUPEGStreaming Capability3 StreamsResolution\$	Video			
Resolution 4K(3840x2160)/1080P(1920x1080)/1.3M(1280x GP(7252x284)35x2240) Frame Rate Main stream 4K/1.3M/720P(1=25/30fps).1080P(1*50/60fps) Bit Rate Sub stream1 D1/CIF(1 ~ 25/30fps) Bit Rate Control CBR/VBR Bit Rate CBR/VBR Backlight Compensation BLC / HLC / DWDR White Balance Auto / Manual Motion Detection Support Region of Interest Support Sabilization (EI) Support Digital Zoom Iso* Privacy Masking Up to 24 areas Audio Garic 7111mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2 Network FL*/PV/IVG,HTTP.HTTPS,SSL,TCP/IP, UDP,UPN, PV/IVG,HTTP.HTTPS,SSL,TCP/IP, UDP,UPN, DNS,PPPOE,DDNS,FTP, IP Filter,QOS,Bonjour,B02.1x Interoperability ONVIF, PSIA, CGI Streaming MetHod Unicast / Multicast Management S/tware Sup CS Smart Phone IR, Chrome, Firefox, Safari <td< td=""><td colspan="2">Compression</td><td>H.265/H.264/MJPEG</td></td<>	Compression		H.265/H.264/MJPEG	
Resolution Sci0/720/1200-r220/D1(704+S76/ 704+480)/ CIF(352×284/352×240) Frame Rate Main stream 4K/1.3M/720P(1~25/30fps),1080P(1~50/60fps) Bit Rate Control D1/CIF(1~25/30fps) Sci0 Bit Rate Control CBR/VBR CBR/VBR Bit Rate CBR/VBR CBR/VBR Bit Rate H265/H264:256K ~ 8192Kbps, MIPEG: 4096K ~ 20480Kbps Day/Night Auto (ICR) / Color / B/W Backlight Compensation BLC / HLC / DWDR White Balance Auto / Manual Gain Control Muin Support Region of Interest Support Sabilization (EI) Support Defog Support Digital Zoom ISA Flip 180° Privacy Masking Up to 24 areas Audio G711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2 Network R-45 (10/100Base-T) Protocol Gr/Mainey Sum Proports, Sum Prophep, DNS,PPPOE, DONS,PTP, IP Filter, QOS, Bonjour, 802.1x Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Management Software	Streaming Capat	bility	3 Streams	
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Sub stream2 1080P720P/D1/(1~ 25/30fps) Bit Rate Control CBR/VBR Bit Rate H.265/H.264: 256K ~ 8192Kbps, MIPEG: 4096K ~ 20480kbps Day/Night Auto(ICR) / Color / B/W Backlight Compensation BLC / HLC / DWDR White Balance Auto,ATW,Indoor,Outdoor,Manual Gain Control Auto,ATW,Indoor,Outdoor,Manual Gain Control Ultra DNR (2D/3D) Motion Detetion Support Region of Interest Support Electronic Image Stabilization (EIS) Support Defog Support Digital Zoom 16x Flip 180° Privacy Masking Up to 24 areas Audio Compression Compression G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2 Network Interoperability Protocol Up to 24 areas Interoperability ONVIF, PSIA, CGI Protocol MPA/EQ.LITP, HTTPS, SSL, TCP/IP, UDP UPAP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x Interoperability ONVIF, PSIA, CGI Streaming	Frame Rate	Main stream	4K/1.3M/720P(1~25/30fps),1080P(1~50/60fps)	
Bit Rate Control CBR/VBR Bit Rate H.265/H.264: 256K ~ 8192Kbps, MJPEG: 4096K ~ 20480Kbps Day/Night Auto(ICR) / Color / B/W Backlight Compensation BLC / HLC / DWDR White Balance Auto,ATW,Indoor,Outdoor,Manual Gain Control Auto,ATW,Indoor,Outdoor,Manual Gain Control Auto / Manual Noise Reduction Ultra DNR (2D/3D) Motion Detetion Support Region of Interest Support Electronic Image Stabilization (EIS) Support Defog Support Digital Zoom 16x Flip 180° Privacy Masking Up to 24 areas Audio . Compression G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2 Network . Ethernet RJ-45 (10/100Base-T) Protocol IPv4/Pv6,HTTP,HTTPS,SSLTCP/IP, UDP,UPP, ICMP,IGMP,SMP,RTSP,RTP, SMTP, NTP, DHCP, DNS,PPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Max. User Access 20 users Edge Storage NaS (Network Attached Storag		Sub stream1	D1/CIF(1 ~ 25/30fps)	
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Digital Zoom16xFlip180°Privacy MaskingUp to 24 areasAudioCompressionG.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2NetworkFithernetEthernetRJ-45 (10/100Base-T)ProtocolIPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1xInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageIAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSSSmart PhoneIOS, AndroidCertificationsCE: ENSS032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI CG3.4- 2014	-		Support	
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Privacy MaskingUp to 24 areasAudioG.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2CompressionG.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ MPEG2-Layer2NetworkEthernetEthernetRJ-45 (10/100Base-T)ProtocolIPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPP, ICMP,IGMP,SMMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1xInteroperabilityONVIF, PSIA, CGIStreaming MethodUnicast / MulticastMax. User Access20 usersEdge StorageNAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GBWeb ViewerIE, Chrome, Firefox, SafariManagement SoftwareSmart PSS, DSSSmart PhoneIOS, AndroidCertificationsCE: ENS5032/ENS5024/ENS0130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Digital Zoom		16x	
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Smart Phone IOS, Android Certifications CE: EN55032/EN55024/EN50130-4 Certifications FCC: Part15 subpartB,ANSI C63.4- 2014	Web Viewer		IE, Chrome, Firefox, Safari	
Certifications CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014	Management Software		Smart PSS, DSS	
CE: EN55032/EN55024/EN50130-4 Certifications FCC: Part15 subpartB,ANSI C63.4- 2014	Smart Phone		IOS, Android	
Certifications FCC: Part15 subpartB,ANSI C63.4- 2014	Certifications			
	Certifications		FCC: Part15 subpartB,ANSI C63.4- 2014	

Ultra Series | DH-SD6AE830V-HNI

Interface	
Video Interface	1
Audio Interface	1/1
RS485	1
Alarm	7/2
Electrical	
Power Supply	AC24V/3A(±25%), Hi-PoE
Power Consumption	24W,38W (IR on)
Environmental	
Operating Conditions	-40°C \simeq 70°C (-40°F \simeq +158°F) / Less than 90% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal
Dimensions	Φ240(mm) x 382 (mm)
Net Weight	6.75kg(14.88lb)
Gross Weight	10.1kg(22.27lb)

Ordering Information

Туре	Part Number	Description
4K PTZ Camera SD6A	DH-SD6AE830V-HNI	4K 30x IR PTZ Network Camera, PAL
	DH-SD6AE830VN-HNI	4K 30x IR PTZ Network Camera, NTSC
	SD6AE830V-HNI	4K 30x IR PTZ Network Camera, PAL
	SD6AE830VN-HNI	4K 30x IR PTZ Network Camera, NTSC
Accessories	PFB303W	Wall Mount
	PFA111	Mount Adapter
	AC24V/3A	Power Supply
	PFA140	Power box
	PFB300C	Ceiling Mount
	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet mount

Accessories

Included:



Wall Mount



PFA111

Mount Adapter



AC24V/3A Power Supply

Optional:



Power box

PFA150

Pole Mount

PFB300C Ceiling Mount



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PFA151

Corner Mount



PFB303S Parapet Mount

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Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFA111 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA111 + PFB303W + PFA140	PFA111 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA111 + PFB303W + PFA151	PFA111+ PFB303S



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Dimensions (mm)





