

DH-SD6AL830V-HNI

4K 30x Laser PTZ Network Camera



- · 1/1.7" 12Megapixel STARVIS™ CMOS
- · Powerful 30x optical zoom
- · H.265 Encoding
- · Max. 25/30fps@4K
- · Auto tracking and IVS
- · Support Hi-PoE
- · IR distance up to 500m
- · IP67









System Overview

Ultra series adopts top-notch DSP and advanced image sensor, which can offer excellent image performance for different environmental applications. The series supports UHD image up to 4K resolution, large optical zoom up to 48x, ultra starlight and WDR, powerful pan/tilt/zoom performance and etc. It also supports smart plan, such as IVS, face detection, heatmap and auto-tracking. The monitoring range is larger than before, the series is ideal for use in city and perimeter surveillance. Meanwhile, it is fully protected from dust and water, certified to IP67 and vandal resistant to IK10 standard. The ultra series offers industry-leading IR capability of more than 200m.

Functions

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 +70 °C (-40 °F to +158 °F) with 95% humidity. 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 ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor 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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Video **Technical Specification** H.265+/H.265/H.264+/H.264/MJPEG Compression Camera 1/1.7" STARVIS™ CMOS Streaming Capability 3 Streams Image Sensor 4K(3840x2160)/1080P(1920×1080)/1.3M(1280x **Effective Pixels** 3840(H) x 2160(V), 8 Megapixels Resolution 960)/720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240) RAM/ROM 1024M/128M Main stream: 4K/1080P/1.3M/720P(1~25/30fps) Scanning System Progressive Frame Rate Sub stream1: D1/CIF(1 ~ 25/30fps) 1/1s~1/30,000s **Electronic Shutter Speed** Sub stream2: 1080P/720P/D1(1 ~ 25/30fps) Minimum Illumination Color: 0.05Lux@F1.6; 0Lux (IR on) Bit Rate Control CBR/VBR S/N Ratio More than 56dB H.265/H.264: 256K ~ 8192Kbps, MJPEG: 56K ~ Bit Rate IR Distance Distance up to 500m (1640ft) 20480Kbps Day/Night Auto(ICR) / Color / B/W IR On/Off Control Auto/Manual **Backlight Compensation** BLC / HLC / DWDR IR LEDs Laser module White Balance Auto, ATW, Indoor, Outdoor, Manual **DORI Distance** *Note: The DORI distance is a "general proximity" of distance which makes it easy to Gain Control Auto / Manual pinpoint the right camera for your needs. The DORI distance is calculated based on Ultra DNR (2D/3D) sensor specification and lab test result according to EN 62676-4 which defines the Noise Reduction criteria for Detect, Observe, Recognize and Identify respectively. Motion Detetion Support Detect Observe Recognize Identify Region of Interest Support 3892m(12769ft) 1557m(5108ft) 778m(2552ft) 389m(1276ft) Electronic Image Support Stabilization (EIS) Defog Support Focal Length 6mm~180mm **Digital Zoom** 16x F1.6 ~ F4.8 Max. Aperture 180° Flip H: 61.2° ~ 2.1° Angle of View Privacy Masking Up to 24 areas Optical Zoom 30x Audio **Focus Control** Auto/Manual G.711a/G.711mu/PCM/G.726/AAC/G722.1/G.729/ Close Focus Distance 100mm~ 1000mm Compression MPEG2-Layer2 PTZ Network Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180° Pan/Tilt Range Ethernet RJ-45 (100Base-TX/1000Base-T) IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s Manual Control Speed Protocol ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x **Preset Speed** Pan: 240° /s; Tilt: 200° /s ONVIF, PSIA, CGI Interoperability Presets 300 Streaming Method Unicast / Multicast PTZ Mode 5 Pattern, 8 Tour, Auto Pan, Auto Scan Max. User Access 20 users Human-oriented focal Length/ speed adaptation Speed Setup NAS (Network Attached Storage), Local PC for Auto restore to previous PTZ and lens status after Edge Storage instant recording, Micro SD card 128GB Power up Action power failure Web Viewer IE. Chrome, Firefox, Safari Activate Preset/ Scan/ Tour/ Pattern if there is no Idle Motion command in the specified period Management Software Smart PSS, DSS DH-SD, Pelco-P/D (Auto recognition) Protocol Smart Phone IOS, Android Intelligence Certifications **Auto Tracking** Support CE: EN55032/EN55024/EN50130-4 Certifications

FCC: Part15 subpartB, ANSI C63.4-2014

Tripwire, Intrusion, Abandoned/Missing, Face

Detection

IVS

Interface

Video Interface	1
Audio Interface	1/1
RS485	1
Alarm I/O	7/2

Electrical

Power Supply	AC24V/3A(±25%), Hi-PoE
Power Consumption	24W, 38W (IR on)

Environmental

Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 90% RH
Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф240(mm) x 357(mm)
Net Weight	6.75kg(14.88lb)
Gross Weight	10.5kg(23.15lb)

Ordering Information		
Туре	Part Number	Description
4K PTZ Camera	DH-SD6AL830V-HNI	4K 30x Laser PTZ Network Camera, PAL
	DH-SD6AL830VN-HNI	4K 30x Laser PTZ Network Camera, NTSC
	SD6AL830V-HNI	4K 30x Laser PTZ Network Camera, PAL
	SD6AL830VN-HNI	4K 30x Laser 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:



PFB303W Wall Mount



PFA111 Mount Adapter



AC24V/3A Power Supply

Optional:



PFA140 Power box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

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

Dimensions (mm)



