

DH-SD6C225U-HNI

2MP 25x Starlight IR PTZ Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- · H.265 Encoding
- · Max. 50/60fps@1080P
- · Auto-tracking and IVS
- · IR distance up to 150m
- · IP66











System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera can provide large monitoring range and great detail. The camera has very excellent low light performance due to adopting the latest starlight technology. The camera is equipped with smooth control, high quality image and good protection, which make it can meet most of the requirements of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.002lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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 -40°C $^{\circ}$ 60°C (-40°F $^{\circ}$ +140°F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 10\%$ input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 6KV 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.



Protocol

Intelligence

Auto Tracking

IVS

Video **Technical Specification** H.265+/H.265/H.264+/H.264 Compression Camera 1/2.8" STARVIS™ CMOS Streaming Capability 3 Streams Image Sensor 1080P(1920×1080)/1.3M(1280×960)/720P(1280× **Effective Pixels** 1920(H) x 1080(V), 2 Megapixels Resolution 720)/D1(704×576/704×480)/CIF(352×288/352×240) RAM/ROM 1024M/128M Main stream: 1080P/1.3M/720P(1~50/60fps) Scanning System Progressive Sub stream1: D1/CIF(1 ~ 25/30fps) Frame Rate 1/1s~1/30,000s **Electronic Shutter Speed** Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps) Minimum Illumination Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on) Bit Rate Control CBR/VBR S/N Ratio Bit Rate H.265/H.264: 448K ~ 8192Kbps IR Distance Distance up to 150m (492ft) Day/Night Auto(ICR) / Color / B/W IR On/Off Control Auto/Manual **Backlight Compensation** BLC / HLC / WDR (120dB) IR LEDs 6 White Balance Auto, ATW, Indoor, Outdoor, Manual Lens Gain Control Auto / Manual Focal Length 4.8mm~120mm Noise Reduction Ultra DNR (2D/3D) Max. Aperture F1.6 ~ F4.4 Motion Detection Support H: 59.2° ~ 2.4° Angle of View Region of Interest Support Optical Zoom 25x Electronic Image Support Stabilization (EIS) Focus Control Auto/Manual Defog Support Close Focus Distance 100mm~ 1000mm **Digital Zoom** 16x **DORI Distance** 180° *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 Privacy Masking Up to 24 areas sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively. Audio Identify Detect Observe Recognize G.711a/G.711Mu/AAC/G.722 / G.726/G.729/ Compression 1613m(5292ft) MPEG2-L2 646m(2119ft) 323m(1060ft) 161m(528ft) Network PTZ RJ-45 (10Base-T/100Base-TX) Ethernet Pan/Tilt Range Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180° IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, Manual Control Speed Pan: 0.1° ~160° /s; Tilt: 0.1° ~120° /s 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 Interoperability ONVIF. PSIA. CGI Presets 300 Streaming Method Unicast / Multicast PTZ Mode 5 Pattern, 8 Tour, Auto Pan ,Auto Scan Max. User Access Speed Setup Human-oriented focal Length/ speed adaptation NAS (Network Attached Storage), Local PC for Auto restore to previous PTZ and lens status after Edge Storage Power up Action instant recording, Micro SD card 128GB power failure Web Viewer IE, Chrome, Firefox, Safari Activate Preset/Scan/Tour/Pattern if there is no Idle Motion command in the specified period Smart PSS, DSS Management Software

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Smart Phone

Certifications

Certifications

IOS. Android

CE: EN55032/EN55024/EN50130-4

FCC: Part15 subpartB, ANSI C63.4-2014

UL: UL60950-1+CAN/CSA C22.2,No.60950-1

DH-SD, Pelco-P/D (Auto recognition)

Tripwire, Intrusion, Abandoned/Missing, Face

Support

Detection, Heat Map

Interface

Video Interface	1 port(BNC, 1.0V[p-p], 75 Ω)
RS485	1
Audio I/O	1/1
Alarm I/O	2/1

Electrical

Power Supply	AC24V/3A(±10%)
Power Consumption	10.5W, 26W (IR on)

Environmental

Operating Conditions	-40°C ~ 60°C (-40°F ~ +140°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф205(mm) x 336(mm)
Net Weight	5kg(11.02lb)
Gross Weight	8.3kg(18.30lb)

Ordering Information Part Number Description Type 2MP 25x Starlight IR PTZ DH-SD6C225U-HNI Network Camera, WDR, PAL 2MP 25x Starlight IR PTZ DH-SD6C225UN-HNI Network Camera, WDR, NTSC 2MP PTZ Camera 2MP 25x Starlight IR PTZ SD6C225U-HNI Network Camera, WDR, PAL 2MP 25x Starlight IR PTZ SD6C225UN-HNI Network Camera, WDR, NTSC 64FB Wall Mount AC24V/3A Power Adapter PFA114 Mount Adapter PFB303W Wall Mount PFA140 Power Box Accessories PFB300C Ceiling Mount PFA120 Junction Box PFA150 Pole Mount PFA151 Corner Mount PFB303S Parapet Mount

Accessories

Included:





Wall Mount

Power Adapter

Optional:





Mount Adapter



PFA140 Power Box









PFB300C Ceiling Mount

PFA120 Junction Box

PFA150 Pole Mount





Corner Mount



PFB303S Parapet Mount

Ceiling Mount	Junction Mount
PFA114 + PFB300C	PFA114 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA114 + PFB303W + PFA140	PFA114 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA114 + PFB303W + PFA151	PFA114+ PFB303S

Dimensions (mm)



