

DH-EPC230U-PTZ-IR

2MP 30x Anti-corrosion IR PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- Powerful 30x optical zoom
- · 316L stainless steel housing
- · Starlight technology
- · H.265/H.264 Triple-stream Encoding
- · Max. 50/60fps@1080P
- · Support IVS
- · IR distance up to 100m
- · IP68



System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

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 0.005 lux. 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.

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 +60 °C (-40 °F to +140°F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP68 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows input voltage tolerance, suitable for the unstable conditions for outdoor applications. Its 2KV 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.



All-environment Series | DH-EPC230U-PTZ-IR

Technical Specification

Camera

Image Sensor	1/2.8" STARVIS™ CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	512M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6(IR on)
S/N Ratio	More than 55dB
IR Distance	Distance up to 100m (328ft)
IR On/Off Control	Auto/Manual
IR LEDs	7
Wiper	Support
Lens	
Focal Length	4.5mm~135mm
Max. Aperture	F1.6 ~ F4.4
Angle of View	H: 67.8° ~ 2.4°
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
1862m(6109ft)	744m(2441ft)	372m(1220ft)	186m(610ft)

PTZ

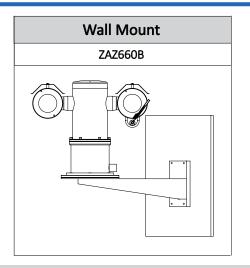
Pan/Tilt Range	Pan: 0° ~ 360° endless; Tilt: -90° ~ 90°	
Manual Control Speed	Pan: 0.1° ~40° /s; Tilt: 0.1° ~40° /s	
Preset Speed	Pan: 40° /s; Tilt: 40° /s	
Presets	256	
PTZ Mode	5 Scan, 8 Tour	
Speed Setup	Human-oriented focal Length/speed adaptation	
Power up Action	Auto restore to previous PTZ and lens status after power failure	
Idle Motion	Activate Preset/Scan/Tour if there is no command in the specified period	
Protocol	DH-SD, Pelco-P/D (Auto recognition)	
Intelligence		
Auto Tracking	N/A	
IVS	Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map	

Video Compression H.265+/H.265/H.264+/H.264 Streaming Capability 3 Streams 1080P(1920×1080)/1.3M(1280x960)/720P(1280× Resolution 720)/D1(704×576/704×480)/CIF(352×288/352×240) Main stream: 1080P/1.3M/720P(1~50/60fps) Frame Rate Sub stream1: D1/CIF(1 ~ 25/30fps) Sub stream2: 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 (120dB) White Balance Auto, ATW, Indoor, Outdoor, Manual Auto / Manual Gain Control Ultra DNR (2D/3D) Noise Reduction Motion Detection Support **Region of Interest** Support **Electronic Image Stabilization** Support (EIS) Defog Support **Digital Zoom** 16x Flip 180° Audio Compression G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2 Network RJ-45 (10Base-T/100Base-TX) Ethernet IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, Protocol ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x Interoperability ONVIF, PSIA, CGI Streaming Method Unicast / Multicast Max. User Access 20 users NAS (Network Attached Storage), Local PC for Edge Storage instant recording, Micro SD card 256GB Web Viewer IE, Chrome, Firefox, Safari Management Software Smart PSS, DSS Smart Phone IOS, Android Interface Video Interface 1 port(BNC, 1.0V[p-p], 75Ω) RS485 1 Audio I/O 1/1 2/1 Alarm I/O

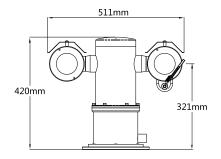
All-environment Series | DH-EPC230U-PTZ-IR

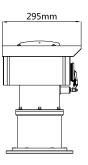
Electrical

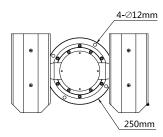
Power Supply	AC220V(AC100V ~ 240V)
Power Consumption	40W, 75W (IR on, Heater On)
Environmental	
Operating Conditions	-40°C $\simeq 60°$ C (-40°F $\simeq +140°$ F) / Less than 95% RH
Ingress Protection	IP68
Vandal Resistance	N/A
Construction	
Casing	316L Stainless Steel
Dimensions	Φ482mm×393mm×295mm
Net Weight	28.9kg(63.71lb)
Gross Weight	35kg(77.16lb)



Dimensions (mm)







Accessories

Optional:

Accessories



Ordering Information

Туре

2MP PTZ

Camera

Part Number

DH-ZAZ660B

DH-ZA-JXD4

DH-ZAJ300

DH-GE1500

DH-EPC230U-PTZ-IR

DH-EPC230UN-PTZ-IR

DH-ZAZ660B Wall Mount



DH-GE1500 Flexible Tube





Description

Wall Mount

Flexible Tube

2MP 30x Anti-corrosion IR PTZ

2MP 30x Anti-corrosion IR PTZ

Network Camera, WDR, NTSC

Junction Box (
\$\phi227mmx84mm)\$

Junction Box (¢376mmx175mm)

Network Camera, WDR, PAL

DH-ZAJ300 Junction Box



