

# DH-EPC230U-PTZ

2MP 30x Explosion-proof Network Positioning System



- · 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
- 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) specifications, ensuring interoperability between network video products regardless of manufacturer.



PTZ Mode

Speed Setup

Idle Motion

Protocol

Power up Action

5 Scan, 8 Tour

power failure

the specified period

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

Human-oriented focal Length/speed adaptation

Auto restore to previous PTZ and lens status after

Activate Preset/Scan/Tour if there is no command in

#### Video **Technical Specification** Compression H.265+/H.265/H.264+/H.264 Camera Streaming Capability 3 Streams 1/2.8" STARVIS™ CMOS Image Sensor 1080P(1920×1080)/1.3M(1280x960)/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 512M/128M Main stream: 1080P/1.3M/720P(1~50/60fps) Scanning System Progressive Frame Rate Sub stream1: D1/CIF(1 ~ 25/30fps) 1/1s~1/30,000s **Electronic Shutter Speed** Sub stream2: 1080P/1.3M/720P(1 ~ 25/30fps) Minimum Illumination Color: 0.005Lux@F1.6; B/W:0.0005Lux@F1.6 Bit Rate Control CBR/VBR IR Distance N/A H.265/H.264: 448K ~ 8192Kbps Bit Rate IR On/Off Control N/A Day/Night Auto(ICR) / Color / B/W IR LEDs N/A BLC / HLC / WDR (120dB) **Backlight Compensation** Wiper Support White Balance Auto, ATW, Indoor, Outdoor, Manual Gain Control Auto / Manual Lens Noise Reduction Ultra DNR (2D/3D) Focal Length 4.5mm~135mm Motion Detection Support Max. Aperture F1.6 ~ F4.4 Region of Interest Support Angle of View H: 67 8° ~ 2 4° Electronic Image Stabilization Support (EIS) Optical Zoom 30x Defog Support Focus Control Auto/Manual Digital Zoom 16x 100mm~ 1000mm Flip 180° Close Focus Distance Audio **DORI Distance** \*Note: The DORI distance is a "general proximity" of distance which makes it easy to G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2 Compression 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 Network criteria for Detect, Observe, Recognize and Identify respectively. Ethernet RJ-45 (10Base-T/100Base-TX) Identify Detect Observe Recognize IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, 1862m(6109ft) 744m(2441ft) 372m(1220ft) 186m(610ft) Protocol ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x PTZ ONVIF Profile S&G, API Interoperability Pan/Tilt Range Pan: 0° ~ 360° endless; Tilt: -90° ~ 90° Streaming Method Unicast / Multicast Manual Control Speed Pan: 0.1° ~40° /s; Tilt: 0.1° ~40° /s Max. User Access 20 users Pan: 40° /s; Tilt: 40° /s Preset Speed NAS (Network Attached Storage), Local PC for Edge Storage instant recording, Micro SD card 256GB 256 Presets

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

IOS, Android

IE, Chrome, Firefox, Safari

Smart PSS, DSS, DMSS

Web Viewer

Smart Phone

Interface

Management Software

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

### Certifications

Certifications	ATEX: EN 60079-0/EN 60079-1/EN 60079-28/EN 60079-31 IECEx: IEC 60079-0/IEC 60079-1/EN 60079-28/IEC 60079-31
Explosion-proof Marking	ATEX: II 2 G Ex db IIC T6 Gb, II 2 D Ex tb IIIC T80°C Db IECEx : Ex db IIC T6 Gb, Ex tb IIIC T80°C Db

### Electrical

Power Supply	AC220V(AC100V ~ 240V)
Power Consumption	35W, 60W(Heater on)

### Environmental

Operating Conditions	-40°C $^{\sim}$ 60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH
Storage Temperature	-40°C ~ 65°C (-40°F ~ +149°F)
Ingress Protection	IP68
Vandal Resistance	N/A

### Construction

Casing	316L Stainless Steel	
Dimensions	Ф334mm×402mm×301mm	
Net Weight	23.3kg(51.37lb)	
Gross Weight	27.5kg(60.63lb)	

### Ordering Information

Ordering information		
Туре	Part Number	Description
PTositioning	DH-EPC230U-PTZ	2MP 30x Explosion-proof Network Positioning System, WDR, PAL
	DH-EPC230UN-PTZ	2MP 30x Explosion-proof Network Positioning System, WDR, NTSC
Accessories	DH-ZAZ660B	Wall Mount
	DH-ZA-JXD4	Junction Box (ф227mm x 84mm)
	DH-ZAJ300	Junction Box (ф376mm x 175mm)
	DH-GE1500	Flexible Tube

### Accessories

### Optional:





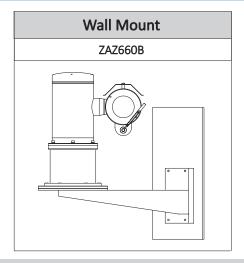


DH-ZA-JXD4 Junction Box



DH-ZAJ300 Junction Box





### Dimensions (mm)

