

DH-EPC230U-PTZ-IR

2MP 30x Anti-corrosion IR etwork 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
- · 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) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Spe	cification					Video	
Camera						Compression	H.265+/H.265/H.264+/H.264
Image Sensor 1/2.8		1/2.8"	1/2.8" STARVIS™ CMOS			Streaming Capability	3 Streams
Effective Pixels		1920(H) x 1080(V), 2 Megapixels				Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240
RAM/ROM		512M/128M				Frame Rate	Main stream: 1080P/1.3M/720P(1~50/60fps)
Scanning System		Progressive					Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed		1/1s~1/30,000s					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
S/N Ratio		More than 55dB				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR Distance		Distance up to 100m (328ft)				Day/Night	Auto(ICR) / Color / B/W
IR On/Off Control		Auto/Manual				Backlight Compensation	BLC / HLC / WDR (120dB)
IR LEDs		7				White Balance	Auto, ATW, Indoor, Outdoor, Manual
Wiper		Support				Gain Control	Auto / Manual
Lens						Noise Reduction	Ultra DNR (2D/3D)
Focal Length		4.5mm~135mm				Motion Detection	Support
		F1.6 ~ F4.4				Region of Interest	Support
Max. Aperture Angle of View		H: 67.8° ~ 2.4°				Electronic Image Stabilization (EIS)	Support
Optical Zoom		30x				Defog	Support
Focus Control		Auto/Manual				Digital Zoom	16x
						Flip	180°
	Close Focus Distance 100mm~ 1000mm					Audio	
*Note: The DORI distance is a "general proximity" of distance which makes it easy to						Compression	G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2
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.						Network	
Detect	Observe		Recognize	Identify		Ethernet	RJ-45 (10Base-T/100Base-TX)
1862m(6109ft)	744m(2441ft)		372m(1220ft) 186m(610ft)			Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
PTZ					Interoperability	ONVIF Profile S&G, API	
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
Preset Speed		Pan: 40° /s; Tilt: 40° /s				Edge Storage	NAS (Network Attached Storage), Local PC for
Presets		256				Web Viewer	instant recording, Micro SD card 256GB IE, Chrome, Firefox, Safari
PTZ Mode		5 Scan, 8 Tour					
Speed Setup		Human-oriented focal Length/speed adaptation				Management Software	Smart PSS, DSS, DMSS
Power up Action		Auto restore to previous PTZ and lens status after power failure				Smart Phone	IOS, Android
Idle Motion		Activate Preset/Scan/Tour if there is no command in the specified period				Interface Video Interface	1 nort/RNC 1 0V(n.n) 750V
Protocol		DH-SD, Pelco-P/D (Auto recognition)					1 port(BNC, 1.0V[p-p], 75Ω)
Intelligence						RS485	1
Auto Tracking		N/A				Audio I/O	1/1
						Alarm I/O	2/1

Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map

IVS

Alarm I/O

2/1

Electrical

Power Supply	AC220V(AC100V ~ 240V)
Power Consumption	40W, 75W (IR on, Heater On)

Environmental

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

Construction

Casing	316L Stainless Steel
Dimensions	Ф482mm×393mm×295mm
Net Weight	28.9kg(63.71lb)
Gross Weight	35kg(77.16lb)

Ordering Information Part Number Description Туре 2MP 30x Anti-corrosion IR PTZ DH-EPC230U-PTZ-IR Network Camera, WDR, PAL 2MP PTZ Camera 2MP 30x Anti-corrosion IR PTZ DH-EPC230UN-PTZ-IR Network Camera, WDR, NTSC DH-ZAZ660B Wall Mount DH-ZA-JXD4 Junction Box (\$227mm x 84mm) Accessories DH-ZAJ300 Junction Box (φ376mm x 175mm) DH-GE1500 Flexible Tube

Accessories

Optional:





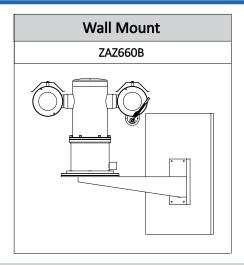
DH-GE1500 Flexible Tube



DH-ZA-JXD4 Junction Box



DH-ZAJ300 Junction Box



Dimensions (mm)

