

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.



Technical Spe	cification			Video	
Camera				Compression	H.265+/H.265/H.264+/H.264
Image Sensor		1/2.8" STARVIS™ CMOS		Streaming Capability	3 Streams
Effective Pixels			pixels	Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280 720)/D1(704×576/704×480)/CIF(352×288/352×
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			
Minimum Illumination		Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6;		Die Date Cantural	Sub stream2: 1080P/1.3M/720P(1 ~ 25/30fps)
S/N Ratio		OLux@F1.6(IR on) More than 55dB		Bit Rate Control	CBR/VBR
IR Distance				Bit Rate	H.265/H.264: 448K ~ 8192Kbps
		Distance up to 100m (328ft)		Day/Night	Auto(ICR) / Color / B/W BLC / HLC / WDR (120dB)
IR On/Off Control		Auto/Manual		Backlight Compensation White Balance	Auto, ATW, Indoor, Outdoor, Manual
IR LEDs		7		Gain Control	Auto / Manual
Wiper		Support		Noise Reduction	Ultra DNR (2D/3D)
Lens				Motion Detection	Support
Focal Length		4.5mm~135mm		Region of Interest	Support
Max. Aperture		F1.6 ~ F4.4		Electronic Image Stabilization	
Angle of View		H: 67.8° ~ 2.4°		(EIS)	Support
Optical Zoom		30x		Defog	Support
Focus Control		Auto/Manual		Digital Zoom	16x
Close Focus Distance		100mm~ 1000mm		Flip	180°
DORI Distance				Audio	
*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			alculated based on	Compression	G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2
•		Ilt according to EN 62676-4 ze and Identify respectively.	which defines the	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,DNS,FTP, IP Filter,QoS,Bonjour,802
PTZ				Interoperability	ONVIF, PSIA, CGI
Pan/Tilt Range	į	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	į	Pan: 40° /s; Tilt: 40° /s			NAS (Network Attached Storage),Local PC for
Presets		256		Edge Storage	instant recording, Micro SD card 256GB
PTZ Mode		5 Scan, 8 Tour		Web Viewer	IE, Chrome, Firefox, Safari
Speed Setup		Human-oriented focal Length/speed adaptation		Management Software	Smart PSS, DSS
Power up Action		Auto restore to previous PTZ and lens status after		Smart Phone	IOS, Android
Idle Motion		power failure Activate Preset/Scan/Tour if there is no command in		Interface	
Protocol		the specified period DH-SD, Pelco-P/D (Auto recognition)		Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
Intelligence		2 25, Case 1, 2 (late recognition)		RS485	1
-		N/A		Audio I/O	1/1
Auto Tracking		N/A			

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						
Туре	Part Number	Description				
2MP PTZ	DH-EPC230U-PTZ-IR	2MP 30x Anti-corrosion IR PTZ Network Camera, WDR, PAL				
Camera	DH-EPC230UN-PTZ-IR	2MP 30x Anti-corrosion IR PTZ Network Camera, WDR, NTSC				
	DH-ZAZ660B	Wall Mount				
A	DH-ZA-JXD4	Junction Box (ф227mmx84mm)				
Accessories	DH-ZAJ300	Junction Box (ф376mmx175mm)				
	DH-GE1500	Flexible Tube				

Accessories

Optional:





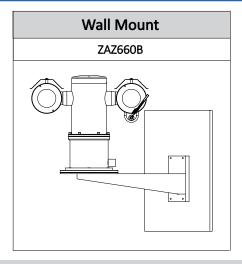
DH-GE1500 Flexible Tube



DH-ZA-JXD4 Junction Box



DH-ZAJ300 Junction Box



Dimensions (mm)

