

DH-EPC230U-PTZ-IR

2MP 30x Explosion-proof 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, ATEX and IECEx Certifacation











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 for ±25% input voltage tolerance, suitable for the most 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 Specification				Video			
Camera					Compression	H.265+/H.265/H.264+/H.264	
Image Sensor		1/2.8" STARVIS™ CMOS				Streaming Capability	3 Streams 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				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; 0Lux@F1.6(IR on)				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/M	anual			Backlight Compensation	BLC / HLC / WDR (120dB)
IR LEDs		7				White Balance	Auto, ATW, Indoor, Outdoor, Manual
Lens						Gain Control	Auto / Manual
Focal Length		4.5mm^	135mm			Noise Reduction	Ultra DNR (2D/3D)
Max. Aperture F1.6		F1.6 ~ F	F1.6 ~ F4.4		Motion Detection	Support	
Angle of View		H: 67.8° ~ 2.4°				Region of Interest	Support
Optical Zoom		30x				Electronic Image Stabilization (EIS)	Support
Focus Control		Auto/Manual				Defog	Support
Close Focus Distance		100mm~ 1000mm				Digital Zoom	16x
DORI Distance				Flip	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				Audio			
	and lab test res	ult accor	ding to EN 62676-4 w			Compression	G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2
Detect			Recognize Identify			Network	
1862m(6109ft)	744m(2441ft	t)	372m(1220ft)	186m(610ft)		Ethernet	RJ-45 (10Base-T/100Base-TX)
РТ						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
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -90° ~ 90°				Interoperability	ONVIF, PSIA, CGI
Manual Control Spe	ed	Pan: 0.1	° ~40° /s; Tilt: 0.1° ~40°	O°/s		Streaming Method	Unicast / Multicast
Preset Speed		Pan: 40°	°/s; Tilt: 40°/s			Max. User Access	20 users
Presets		256				Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB
PTZ Mode		5 Scan,				Web Viewer	IE, Chrome, Firefox, Safari
Speed Setup		Human-oriented focal Length/speed adaptation Auto restore to previous PTZ and lens status after				Management Software	Smart PSS, DSS
Power up Action		power failure				Smart Phone	IOS, Android
Idle Motion		Activate Preset/Scan/Tour if there is no command in the specified period				Certifications	
Protocol		DH-SD, Pelco-P/D (Auto recognition)				Certifications	ATEX: EN 60079-0/EN 60079-1/EN 60079-28/EN 60079-31
Intelligence					IECEX: IEC 60079-0/IEC 60079-1/IEC 60079-28/IEC 60079-31		
Auto Tracking		N/A			Explosion-proof Marking	ATEX: II 2 G Ex db op is IIC T6 Gb, II 2 D Ex tb op is	
IVS		Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map					IIIC T80°C Db IECEx: Ex db op is IIC T6 Gb, Ex tb op is IIIC T80°C Db

Interface

Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
RS485	1
Audio I/O	1/1
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 Camera	DH-EPC230U-PTZ-IR	2MP 30x Explosion-proof IR PTZ Network Camera, WDR, PAL
	DH-EPC230UN-PTZ-IR	2MP 30x Explosion-proof IR PTZ Network Camera, WDR, NTSC
	DH-ZAZ660B	Wall Mount
Accessories	DH-ZA-JXD4	Junction Box (ф227mmx84mm)
Accessories	DH-ZAJ300	Junction Box (ф376mmx175mm)
	DH-GE1500	Flexible Tube

Accessories

Optional:







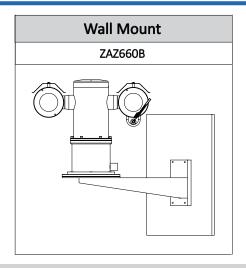
DH-ZAZ660B Wall Mount

DH-ZA-JXD4 Junction Box

DH-ZAJ300 Junction Box



Flexible Tube



Dimensions (mm)

