

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











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.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

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 6KV 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.



N/A

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

Auto Tracking

Technical Specification				Video	
Camera				Compression	H.265/H.264
Image Sensor		1/2.8" STARVIS™ CMOS		Streaming Capability	3 Streams
Effective Pixels 1920(H) x 1080(V), 2 Megapixels		xels	Resolution	1080P(1920×1080)/1.3M(1280x960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)	
RAM/ROM		512M/128M		Frame Rate	Main stream: 1080P(1 ~ 50/60fps), 1.3M/720P(1 ~
Scanning System		Progressive			25/30fps) 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	Mor	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	Auto/Manual		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 ~ F4.4		Motion Detetion	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 Distanc		100mm~ 1000mm		Digital Zoom	16x
DORI Distance		200000		Flip	180°
	stance is a "general pi	oximity" of distance whi	ich makes it easy to	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 sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.				Compression	G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2
Detect Observe		Recognize	Identify	Network	
1862m(6109ft)	744m(2441ft)	372m(1220ft)	186m(610ft)	Ethernet	RJ-45 (10Base-T/100Base-TX)
PTZ		() 372III(1220It) 100III(010It)		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:	Pan: 0° ~ 360° endless; Tilt: -90° ~ 90°		Interoperability	ONVIF, PSIA, CGI
Manual Control Speed		Pan: 0.1° ~40° /s; Tilt: 0.1° ~40° /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
PTZ Mode		5 Scan, 8 Tour		Web Viewer	instant recording, Micro SD card 128GB 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 power failure		Smart Phone	IOS, Android
Idle Motion		Activate Preset/Scan/Tour if there is no command in the specified period		Certifications	.03, Anutolu
Protocol		DH-SD, Pelco-P/D (Auto recognition)		Certifications	CE: EN55032/EN55024/EN50130-4
Intelligence					FCC: Part15 subpartB,ANSI C63.4-2014 ATEX: CNEX 16 ATEX 0007 X Issue 0 IECEX: IECEX CNEX 16.0006X

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

Oracinig 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:







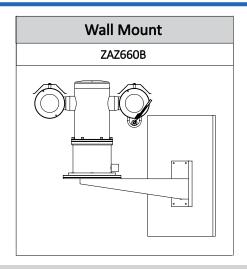
DH-ZAZ660B Wall Mount

DH-ZA-JXD4 Junction Box

DH-ZAJ300 Junction Box



DH-GE1500 Flexible Tube



Dimensions (mm)

