

DH-EPC230U-PTZ

2MP 30x Explosion-proof 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
- · 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.



Auto Tracking

N/A

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

T 1 1 10 10 10 11				Video	
Technical Specification				Compression	H.265/H.264
Camera				Streaming Capability	3 Streams
Image Sensor 1,		1/2.8" STARVIS™ CMOS			1080P(1920×1080)/1.3M(1280×960)/720P(1280×
Effective Pixels 1920(H) x 1080		0(H) x 1080(V), 2 Megapi:	kels	Resolution	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 ~ 25/30fps)
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		N/A		Day/Night	Auto(ICR) / Color / B/W
IR On/Off Control	N/A	N/A		Backlight Compensation	BLC / HLC / WDR (120dB)
IR LEDs	N/A			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	Aut	Auto/Manual		Defog	Support
Close Focus Distanc	e 100	100mm~ 1000mm		Digital Zoom	16x
DORI Distance				Flip	180°
*Note: The DORI di	stance is a "general p	roximity" of distance whi	ch 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			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	Par	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 instant recording, Micro SD card 128GB
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 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)			CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014
Intelligence				Certifications	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	35W, 60W(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	Ф316mm×358mm×285mm
Net Weight	23.3kg(51.37lb)
Gross Weight	27.5kg(60.63lb)

Ordering Information

Туре	Part Number	Description		
2MP PTZ	DH-EPC230U-PTZ	2MP 30x Explosion-proof PTZ Network Camera, WDR, PAL		
Camera	DH-EPC230UN-PTZ	2MP 30x Explosion-proof PTZ Network Camera, WDR, NTSC		
	DH-ZAZ660B	Wall Mount		
Accessories	DH-ZA-JXD4	Junction Box (ф227mmx84mm)		
Accessories	DH-ZAJ300	Junction Box (\$\phi376mmx175mm)		
	DH-GE1500	Flexible Tube		

Accessories

Optional:





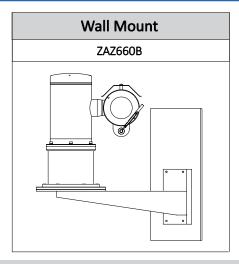


DH-ZAZ660B Wall Mount

DH-ZA-JXD4 Junction Box

DH-ZAJ300 Junction Box





Dimensions (mm)

