

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, 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.



			No. 1	
Technical Specification		Video	11.255 / h1.255 / h1.254 / h1.254	
Camera		Compression	H.265+/H.265/H.264+/H.264	
Image Sensor	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			Main stream: 1080P/1.3M/720P(1~50/60fps)
Scanning System	canning System Progressive		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
Electronic Shutter Speed	nic 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		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 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	DORI Distance			180°
*Note: The DORI distance is a "g			Audio	
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.		which defines the	Compression	G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2
Detect Observe	Recognize	Identify	Network	
1862m(6109ft) 744m(24	-	, 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	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			NAS (Network Attached Storage),Local PC for
PTZ Mode	5 Scan, 8 Tour		Edge Storage	instant recording, Micro SD card 128GB
Speed Setup	Human-oriented focal Length/speed adaptation		Web Viewer	IE, Chrome, Firefox, Safari
Power up Action	Auto restore to previous Proposer failure	TZ and lens status after	Management Software	Smart PSS, DSS
Idle Motion Activate Preset/Scan/Tour if there is no command the specified period		if there is no command in	Smart Phone Certifications	IOS, Android
Protocol DH-SD, Pelco-P/D (Auto recognition)		Ceranications	ATEX. EN 60070 0/EN 60070 4/EN 60070 30/EN	
Intelligence			Certifications	ATEX: EN 60079-0/EN 60079-1/EN 60079-28/EN 60079-31 IECEX: IEC 60079-0/IEC 60079-1/IEC 60079-28/IEC
Auto Tracking N/A		60079-31	000/9-31	
IVS	Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map		Explosion-proof Marking	ATEX: II 2 G Ex db IIC T6 Gb, II 2 D Ex tb IIIC T80°C Db IECEx : Ex db IIC T6 Gb, Ex db IIC T6 Gb

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 Camera	DH-EPC230U-PTZ	2MP 30x Explosion-proof PTZ Network Camera, WDR, PAL
	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 (ф376mmx175mm)
	DH-GE1500	Flexible Tube

Accessories

Optional:





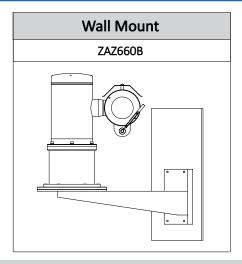


DH-ZAZ660B Wall Mount

DH-ZA-JXD4 Junction Box

DH-ZAJ300 Junction Box





Dimensions (mm)

