

DH-EPC230U

2MP 30x Explosion-proof IR Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 30x optical zoom
- · 304 stainless steel housing
- · Starlight technology
- · H.265 Encoding
- · Max. 50/60fps@1080P
- · Support IVS
- · IR distance up to 100m
- · IP68, ATEX and IECEx Certifacation











System Overview

Featuring powerful optical zoom, 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.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

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 $\pm 25\%$ 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.



Technical Specification			Backlight Compensation	BLC / HLC / WDR (120dB)
Camera		White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Image Sensor	1/2.8" STARVIS™ CMOS		Gain Control	Auto / Manual
Effective Pixels	1920(H) x 1080(V), 2 Megapixels		Noise Reduction	Ultra DNR (2D/3D)
RAM/ROM	512M/128M		Motion Detection	Support
Scanning System	Progressive		Region of Interest	Support
Electronic Shutter Speed	1/1s~1/30,000s		Electronic Image Stabilization (EIS)	Support
Minimum Illumination	Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)		Defog	Support
S/N Ratio	More than 55dB		Digital Zoom	16x
IR Distance	Distance up to 100m (328ft)		Flip	180°
IR On/Off Control	Auto/Manual		Privacy Masking	Up to 24 areas
IR LEDs	6		Audio	
Lens			Compression	G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2
Focal Length	4.5mm~135mm		,	0.711a/0.711Wid/AAC/0.722/0.720/Wil E02 E2
Max. Aperture	F1.6 ~ F4.4		Network	
Angle of View	H: 67.8° ~ 2.4°		Ethernet	RJ-45 (10Base-T/100Base-TX)
Optical Zoom	30x		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
Focus Control	Auto/Manual		Interoperability	ONVIF, PSIA, CGI
Close Focus Distance 100mm~ 1000mm			Streaming Method	Unicast / Multicast
*Note: The DODI distance is a "game	aval pravimity" of distance whi	sh makes it apputa	Max. User Access	20 users
*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.		culated based on	Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB
Detect Observe	Recognize Identify		Web Viewer	IE, Chrome, Firefox, Safari
1862m(6109ft) 744m(2441ft	t) 372m(1220ft)	186m(610ft)	Management Software	Smart PSS, DSS
Intelligence			Smart Phone	IOS, Android
Auto Tracking	N/A		Certifications	
IVS	Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map		Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4-2014 ATEX: EN 60079-0/EN 60079-1/EN 60079-31 IECEx: IEC 60079-0/IEC 60079-1/IEC 60079-31
Video Compression H.265+/H.265/H.264+/H.264				ATEX: II 2 G Ex db IIC T6 Gb, II 2 D Ex tb IIIC T80°C Db
·	H.265+/H.265/H.264+/H.264		Explosion-proof Marking	IECEx : Ex db IIC T6 Gb, Ex db IIC T6 Gb
	Streaming Capability 3 Streams 1080P(1920×1080)/1.3M(1280×960)/720P(1280×		Interface	
Resolution	720)/D1(704×576/704×480)/	CIF(352×288/352×240)	Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
	Main stream: 1080P/1.3M/720P(1~50/60fps)		RS485	1
Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)		Audio I/O	1/1
	Sub stream2: 1080P/1.3M/720P/D1/CIF (1~25/30fps)		Alarm I/O	2/1
Bit Rate Control	CBR/VBR		Electrical	
Bit Rate H.265/H.264: 448K ~ 8192Kbps		Power Supply	AC220V(AC100V ~ 240V)	
Day/Night	Auto(ICR) / Color / B/W		Power Consumption	10W,25W (IR on)

Environmental

Operating Conditions	-40°C ~ 60°C (-40°F ~ +140°F) / Less than 95% RH
Ingress Protection	IP68
Vandal Resistance	N/A

Construction

Casing	304 Stainless Steel
Dimensions	Ф396.1mm×149.5mm×143mm
Net Weight	8.7kg(19.18lb)
Gross Weight	10.4kg(22.93lb)

Ordering Information

0		
Туре	Part Number	Description
2MP Camera	DH-EPC230U	2MP 30x Explosion-proof IR Network Camera, WDR, PAL
	DH-EPC230UN	2MP 30x Explosion-proof IR Network Camera, WDR, NTSC
Accessory	DH-ZAZ100W	Mount Adapter
	DH-EXB100	Wall Mount
	DH-ZA-JXD4	Junction Box (ф227mmx84mm)
	DH-ZAJ300	Junction Box (ф376mmx175mm)
	DH-GE1500	Flexible Tube

Accessories

Optional:



DH-ZAZ100W Mount Adapter



DH-EXB100 Wall Mount



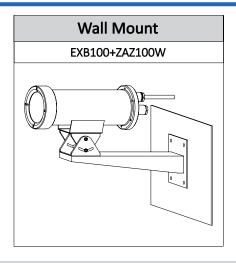
DH-ZA-JXD4 Junction Box



DH-ZAJ300 Junction Box



DH-GE1500 Flexible Tube



Dimensions (mm)

