

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					Day/Night	Auto(ICR) / Color / B/W
Camera				Backlight Compensation	BLC / HLC / WDR (120dB)	
Image Sensor 1/2.8		1/2.8" STARVIS™ CMOS		White Balance	Auto, ATW, Indoor, Outdoor, Manual	
Effective Pixels		1920(H) x 1080(V), 2 Megapixels			Gain Control	Auto / Manual
RAM/ROM		512M/128M			Noise Reduction	Ultra DNR (2D/3D)
Scanning System		Progressive			Motion Detection	Support
Electronic Shutter Speed		1/1s~1/30,000s			Region of Interest	Support
Minimum Illumination		Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)			Electronic Image Stabilization	Support
S/N Ratio		More than 55dB			(EIS)	
IR Distance		Distance up to 100m (328ft)			Defog	Support
IR On/Off Control		Auto/Manual			Digital Zoom	16x
IR LEDs		6			Flip	180°
Lens					Privacy Masking	Up to 24 areas
Focal Length		4.5mm~135mm		Audio		
Max. Aperture F1.6		F1.6 ~ F4.4		Compression	G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2	
Angle of View H: 6		H: 67.8° ~ 2.4°		Network		
Optical Zoom 3		30x			Ethernet	RJ-45 (10Base-T/100Base-TX)
Focus Control		Auto/Manual			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,802.1:
Close Focus Distanc	e	100mm~ 1000mm			Interoperability	ONVIF, PSIA, CGI
DORI Distance					Streaming Method	Unicast / Multicast
*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					Max. User Access	20 users
sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.			Edge Storage	NAS (Network Attached Storage),Local PC for		
Detect	Observe	R	Recognize	Identify		instant recording, Micro SD card 128GB
1862m(6109ft)	744m(2441ft)	3	372m(1220ft)	186m(610ft)	Web Viewer	IE, Chrome, Firefox, Safari
Intelligence	Intelligence			Management Software	Smart PSS, DSS	
Auto Tracking		N/A			Smart Phone	IOS, Android
IVS		Tripwire, Intrusion, Abandoned/Missing, Face			Certifications	
Video		Detection, Heat Map			Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB,ANSI C63.4- 2014 ATEX: CNEX 16 ATEX 0007 X Issue 0
Compression		H.265+/H.265/H.264+/H.264				IECEx: IECEx CNEX 16.0006X
Streaming Capability		3 Streams			Interface	
Resolution		1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)			Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
Frame Rate		Main stream: 1080P/1.3M/720P(1~50/60fps)			RS485	1
		Sub stream1: D1/CIF(1 ~ 25/30fps)			Audio I/O	1/1
		Sub stream2: 1080P/1.3M/720P/D1/CIF			Alarm I/O	2/1
		(1~25/30fps)			Electrical	
Bit Rate Control		CBR/VBR			Power Supply	AC220V(AC100V ~ 240V)
Bit Rate		H.265/H.264: 448K ~ 8192Kbps			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

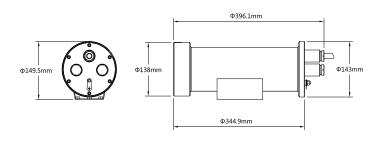
Construction

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

Ordering Information Type Part Number Description 2MP 30x Explosion-proof IR DH-EPC230U Network Camera, WDR, PAL 2MP Camera 2MP 30x Explosion-proof IR DH-EPC230UN Network Camera, WDR, NTSC DH-ZAZ100W Mount Adapter DH-EXB100 Wall Mount DH-ZA-JXD4 Junction Box (\phi227mmx84mm) Accessory DH-ZAJ300 Junction Box (\$\phi376mmx175mm) DH-GE1500 Flexible Tube

Wall Mount EXB100+ZAZ100W

Dimensions (mm)



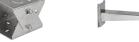
Accessories

Optional:



DH-ZAZ100W

Mount Adapter





DH-ZA-JXD4 Junction Box



DH-ZAJ300

Junction Box



DH-EXB100

Wall Mount

DH-GE1500 Flexible Tube

