

DH-EPC230U

2MP 30x Explosion-proof IR Network Camera



- 1/2.8" 2Megapixel STARVIS™ CMOS
- Powerful 30x optical zoom
- 304 stainless steel housing(316L Optional)
- Starlight technology
- H.265 Encoding
- Max. 50/60fps@1080P
- Support IVS
- IR distance up to 100m
- ATEX and IECEx Certification
- IP68



System Overview

Featuring with powerful optical zoom and explosion-proof design, the EPC series camera features a 1/2.8" Exmor R CMOS imager with a 30x optical zoom lens, provides an all in one solution for capturing long distance video surveillance for outdoor applications. The camera uses the H.265 video compression standard to improve encoding efficiency while preserving high-quality video. Due to the high quality image and great protection, EPC series can meet most of explosion-proof requirements of video surveillance applications.

Functions

Starlight Technology

Thanks to our experience and expertise in hardware and software development, the camera is equipped with the latest image processing algorithm, high performance hardware and high quality optical components, which make the camera have excellent low light performance. In most conditions, this camera can deliver clear, bright and low-noise color images.

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.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, true WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140°F), the camera is designed for extreme temperature environments.

Protection

This camera suits even the harsh conditions for explosion-proof applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning. Subjected and certified to rigorous dust and immersion tests (IP68), the camera is the choice for installation in even the most unforgiving environments.

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

Camera

Image Sensor	1/2.8" STARVIS™ CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	512M/128M
Scanning System	Progressive
Minimum Illumination	Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)
S/N Ratio	More than 55dB
IR Distance	Distance up to 100m (328ft)
IR On/Off Control	Auto/Manual
IR LEDs	6

Lens

Focal Length	4.5mm~135mm
Max. Aperture	F1.6 ~ F4.4
Angle of View	H: 67.8° ~ 2.4°
Optical Zoom	30x
Focus Control	Auto/Manual
Close Focus Distance	100mm~ 1000mm

DORI Distance

*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.

Detect	Observe	Recognize	Identify
1862m(6109ft)	744m(2441ft)	372m(1220ft)	186m(610ft)

Intelligence

Auto Tracking	N/A
IVS	Tripwire, Intrusion, Abandoned/Missing, Face Detection

Video

Compression		H.265/H.264/MJPEG
Streaming Capability		3 Streams
Resolution		1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)
Frame Rate	Main stream	1080P(1 ~ 50/60fps), 1.3M/720P(1 ~ 25/30fps)
	Sub stream1	D1/CIF(1 ~ 25/30fps)
	Sub stream2	1080P/1.3M/720P(1 ~ 25/30fps)
Bit Rate Control		CBR/VBR
Bit Rate		H.265/H.264: 448K ~ 8192Kbps, MJPEG: 56K ~ 20480Kbps
Day/Night		Auto(ICR) / Color / B/W
Backlight Compensation		BLC / HLC / WDR (120dB)

White Balance	Auto,ATW,Indoor,Outdoor,Manual
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detetion	Support
Region of Interest	Support
Electronic Image Stabilization (EIS)	Support
Defog	Support
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas

Audio

Compression	G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2
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Network

Ethernet	RJ-45 (10/100Base-T)
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
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	20 users
Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS
Smart Phone	IOS, Android

Certifications

Certifications	ATEX: CNEX 16 ATEX 0007 X Issue 0 IECEX : IECEx CNEX 16.0006X
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Interface

Video Interface	1
Audio Interface	1/1
RS485	1
Alarm	2/2

Electrical

Power Supply	AC220V(AC100V ~ 240V)
Power Consumption	10W,25W (IR on)

Environmental

Operating Conditions	-40°C ~ 60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection	IP68
Vandal Resistance	N/A

Construction	
Casing	304 Stainless Steel(316L Optional)
Dimensions	Φ398mm×149mm×143mm
Net Weight	8.7kg(19.18lb)
Gross Weight	10.4kg(22.93lb)

Ordering Information		
Type	Part Number	Description
2MP Camera	DH-EPC230U	2MP 30x Explosion-proof IR Network Camera, WDR, PAL
	DH-EPC230U	2MP 30x Explosion-proof IR Network Camera, WDR, NTSC
Accessory	DH-ZAZ100W	Mount Adapter
	DH-EXB100	Wall Mount
	DH-ZA-JXD4	Junction Box (φ227mm×84mm)
	DH-ZAJ300	Junction Box (φ376mm×175mm)
	DH-GE1500	Flexible Connecting Pipe

Accessories

Optional:



DH-ZAZ100W
Mount Adapter



DH-EXB100
Wall Mount



DH-ZA-JXD4
Junction Box



DH-ZAJ300
Junction Box



DH-GE1500
Flexible Connecting Pipe

Dimensions (mm)

