

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
- IP67



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 4KV lightning rating provides protection against the camera and its structure from the effects of lightning. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments.

Interoperability

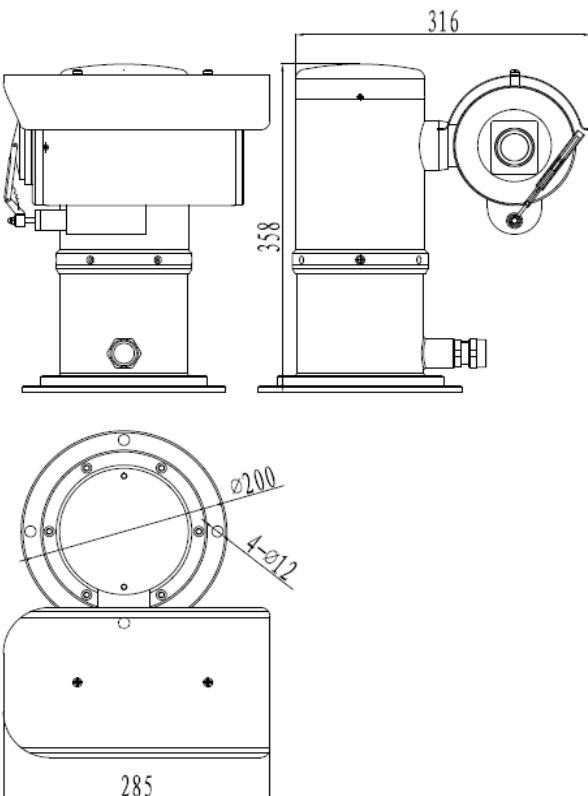
The camera conforms to the ONVIF (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.

Technical Specification				Video				
Camera				Compression	H.265/H.264/MJPEG			
Image Sensor				Streaming Capability	3 Streams			
Effective Pixels				Resolution	1080P(1920x1080)/1.3M(1280x960)/720P(1280x720)/D1(704x576/704x480)/CIF(352x288/352x240)			
RAM/ROM				Frame Rate	Main stream 1080P(1 ~ 50/60fps), 1.3M/720P(1 ~ 25/30fps)			
Scanning System					Sub stream1 D1/CIF(1 ~ 25/30fps)			
Electronic Shutter Speed					Sub stream2 1080P/1.3M/720P(1 ~ 25/30fps)			
Minimum Illumination				Bit Rate Control	CBR/VBR			
S/N Ratio				Bit Rate	H.265/H.264: 448K ~ 8192Kbps, MJPEG: 56K ~ 20480Kbps			
IR Distance				Day/Night	Auto(ICR) / Color / B/W			
IR On/Off Control				Backlight Compensation	BLC / HLC / WDR (120dB)			
IR LEDs				White Balance	Auto, ATW, Indoor, Outdoor, Manual			
Lens				Gain Control	Auto / Manual			
Focal Length				Noise Reduction	Ultra DNR (2D/3D)			
Max. Aperture				Motion Detetion	Support			
Angle of View				Region of Interest	Support			
Optical Zoom				Electronic Image Stabilization (EIS)	Support			
Focus Control				Defog	Support			
Close Focus Distance				Digital Zoom	16x			
DORI Distance				Flip	180°			
*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	Audio				
1862m(6109ft)	744m(2441ft)	372m(1220ft)	186m(610ft)	Compression	G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2			
PTZ								
Pan/Tilt Range		Pan: 0° ~ 360° endless; Tilt: -90° ~ 90°						
Manual Control Speed		Pan: 0.1° ~40° /s; Tilt: 0.1° ~40° /s						
Preset Speed		Pan: 40° /s; Tilt: 40° /s						
Presets		256						
PTZ Mode		5 Scan, 8 Tour						
Speed Setup		Human-oriented focal Length/speed adaptation						
Power up Action		Auto restore to previous PTZ and lens status after power failure						
Idle Motion		Activate Preset/Scan/Tour if there is no command in the specified period						
Protocol		DH-SD, Pelco-P/D (Auto recognition)						
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(1920x1080)/1.3M(1280x960)/720P(1280x720)/D1(704x576/704x480)/CIF(352x288/352x240)						
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°						
Audio								
Compression		G.711a/G.711Mu/AAC/G.722/G.726/MPEG2-L2						
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						
Interface								
Video Interface		1						
Audio Interface		1/1						
RS485		1						
Alarm		2/1						

Electrical

Power Supply	AC220V(AC100V ~ 240V)
Power Consumption	35W, 60W(Heater on)
Environmental	
Operating Conditions	-40°C ~ 60°C (-40°F ~ +140°F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A
Construction	
Casing	316L Stainless Steel
Dimensions	Φ316mm×358mm×285mm
Net Weight	23.3kg(51.37lb)
Gross Weight	27.5kg(60.63lb)

Dimensions (mm)



Ordering Information

Type	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
Accessories	DH-ZAZ660B	Wall Mount
	DH-ZA-JXD4	Junction Box (φ227mmx84mm)
	DH-ZAJ300	Junction Box (φ376mmx175mm)
Accessories	DH-GE1500	Flexible Connecting Pipe

Optional:



DH-ZAZ660B
Wall Mount



DH-ZA-JXD4
Junction Box



DH-ZAJ300
Junction Box



DH-GE1500
Flexible Connecting Pipe