

EX-HSD820V2H3 PD

Explosion protected IP 1080p PTZ dome

DESCRIPTION

The EX-HSD820v2H3 PD is a 2 Megapixel HD highspeed dome camera designed for use in hazardous areas in industrial and offshore environments. 316L stainless steel is used for maximum corrosion protection. The EX-BC820v2H3 Ex d (flame proof) housing is suited to be used in hazardous areas, zone 1, 2 for gas and zone 21 and 22 for dust environments.

FEATURES

ATEX certified for gas and dust

Single integrated flexible cable tail

Marine proof, corrosion protected
316L stainless steel

30x optical zoom + 12x digital zoom

400 /s preset targeting, 360°
continuous rotation

Direct to Fiber (optional)

ONVIF profile S compliant



Description

The EX-HSD820v2H3 PD is a 2 Megapixel HD high-speed dome camera designed for use in hazardous areas in industrial and offshore environments. 316L stainless steel is used for maximum corrosion protection. To operate in extreme low temperatures the dome is fitted with a processor controlled heater.

ATEX certified

The EX-BC820v2H3 Ex d (flame proof) housing is suited to be used in hazardous areas, zone 1, 2 for gas and zone 21 and 22 for dust environments.

Integrated high-speed dome camera

The EX-HSD820V2H3 PD combines high reliability, robust design with a high-quality picture and has a 30x autofocus zoom lens with 12x digital zoom with exceptional imaging controls providing high definition (1080p60) pictures for detailed surveillance footage. Precision up to 400° per second pan and tilt drive technology offer almost instant preset positioning. Support for many presets, cruises, and sequences provides for highly flexible manual or automatic operation.

Multi-stream high-definition

The integrated camera has quad-stream capability for simultaneous streaming of H.264/H.264 or H.264/MJPEG. Multiple combinations of resolution and frame rate can be configured to satisfy different live viewing and recording scenarios.

Multicable tail choices

To simplify installation in hazardous areas the Ex camera is standard fitted with a 5m cable tail. Siqura offers an 316L Ex e termination box for easy, but safe and secure installation. The conduit is available in 5 or 10 m. As an option the camera can be fitted with a single mode optical fiber connection. The multi-cable tail is terminated with dual LC connectors.

Camera housing	
Certification	ATEX II 2 G Ex d IIB T5 Gb II 2 D Ex tb IIIC T100°C Db IP66/67
Ingress protection rating	IP66 and IP67
Rotation	360° Continuous rotation
Tilt angle	-10° to +190°
Number of presets	256
Preset speed	5°/s to 400°/s
Manual speed	0.5°/s to 90°/s
Preset accuracy	0.225°
Features	8x cruise tours, 8x sequence tours, auto calibration, auto flip
Body material	Electro-polished 316L stainless steel
Conduit	diameter 25mm, 3 m; Optional 5 m or 10 m
Sunshield	Optional
Internal demister/heater	Standard
Operating temperature	-30 °C to +55 °C
Salt mist	4x 7 days (IEC 60068-2-52 Test Kb, IACS UR-E10)
Dry heat	+70°C (IEC 60068-2-2, IACS UR-E10)
Damp heat	+55°C (IEC 60068-2-30 test Db, IACS UR-E10)
Cold test	-25°C (IEC 60068-2-1, IACS UR-E10)
Weight	15 kg

Electrical	
Supply voltage	24 Vac 50/60 Hz; Optional 115 Vac, 230 Vac 50/60 Hz
Power consumption	55 W maximum
Electrical connections	Multi cable tail

Camera	
Image sensor	1/2.8 Progressive scan CMOS
Effective pixels	1920 (H) x 1080 (V)
Shutter speed	1 - 1/10000 s
Minimum scene illumination	0.35 lux (colour), 0.09 lux (b/w), F/1.4
Dynamic range (WDR)	120 dB (in WDR-2: dual exposure mode)
Lens	30x Optical zoom, F/1.4 (W), F/4.7 (T); 12x digital zoom
Lens focal length	4.4 mm (W) - 132 mm (T)
Horizontal field of view	60.5° (W) - 2.3° (T)
Features	Back light compensation, auto/manual white balance, (3D/2D) noise, IR light compensation, Electronic Image Stabilizer.
Exposure	Auto (iris or shutter priority) / Manual
Day/Night (IR-cut filter)	Auto/night/day/smart (with adjustable threshold levels)
Video overlay	Date, time, date & time, 3x subtitle (54 characters each), text string (12 characters), preset title, image, transparency, compass
Privacy masks	16

Specs

Camera

Onboard storage Empty micro SDHC/SDXC slot (64 GB)

Video

Compression algorithm(s)	H.264 (baseline / main / high profile); MJPEG			
Number of compression instances	Triple streams: Up to 3x H.264 or 2x H.264 + MJPEG			
Supported resolutions	1920x1080 (1080p); 1280x1024; 1280x720 (720p); 1024x768; 800x600; 720x576 (D1); 640x480; 352x288 (CIF)			
Quad streaming	Stream 1	Stream 2	Stream 3	Stream 4
H.264 instances in 50/60 fps	1920x1080	---	---	---
50/60 fps	1920x1080	640x480	---	---
	1920x1080	640x480 (30fps)	352x288 (30fps)	---
	1920x1080	1920x1080	---	---
25/30 fps	1920x1080	1280x1024	1280x720	---
	1920x1080	1280x1024	1280x720	352x288
MJPEG	One of the above resolution formats in each instances can be MJPEG instead of H.264 if the resolution is lower than or equal to 1920x1080			
Compression bit rate control	Constant bit rate (CBR), variable bit rate (VBR)			
Output bit rate (per H.264 stream)	Up to 20,480 kbit/s			
Number of video output streams	Up to 20 (RTSP)			
Total output data rate (max)	50,000 kbit/s			
Video frame rate	1 to 60 fps / 1 to 50 fps			
Analogue video output	PAL/NTSC, BNC 75; 1 Vpp			

Network

Interface(s)	10/100 Mb Ethernet (4-wires 0.5 mm ² from conduit)
Protocols	IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, IEEE 802.1x, QoS, ONVIF
Password levels	User and Administrator
Supported browsers	Internet Explorer (6.0+), Chrome, Firefox, Safari
User accounts	20

Ordering information

EX-HSD820v2H3 PD 24 5C	Ex 316L 1080p60 30x zoom PTZ dome camera, 5m cable tail 25 mm M25
EX-HSD820v2H3 PD 24 2SM 5C	Ex 316L 1080p60 30x zoom PTZ dome camera, 24 Vac, 2SM 5m cable tail 25 mm M25
For 115 Vac or 230 Vac option	Replace 24 with 115 or 230 respectively
For 5 or 10 meter cable	Replace 5C with 10C