

EX-PROOF HD CAMERA SERIES WITH INTEGRATED EX E CHAMBER

STAHL

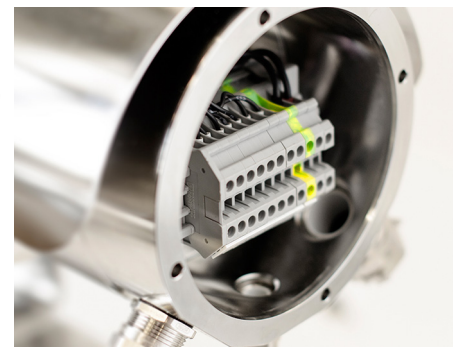
EC-940-AFZ-Full HD IP - POE Extended

The IP Full HD explosion protected EC-940S-AFZ-Series is perfect for effective video surveillance and process control in harsh settings where the presence of gases or flammable dust can create a potentially explosive environment, a reality often found in the oil and gas industries or marine and industrial sectors. The PoE++ version in our new range of hazardous areas cameras „Ex d enclosure with extra Ex e connection chamber“ offers three important advantages: only one Ethernet cable is required thus considerably reducing wiring effort; the network transmission range is up to 150 m/164 yd (with R. STAHL PoE++ extender), and is designed to operate in ambient temperatures between -55 °C and +65 °C (-67 °F and +149 °F). Certified according to ATEX and IECEx, this camera is suitable for a wide range of different applications in many industries and sectors around the globe.

The Ex d enclosure design allows for easy integration of the latest camera technology, thus providing always the latest functions and features in the hazardous area. Our latest FULL HD IP camera offers the following functions: WDR, defog, 32x optical zoom, and ONVIF Profile S protocol.

The Ex e connection chamber concept allows for easy and cost-effective installation and maintenance; no additional Ex e junction boxes are required.

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Ex e chamber



MAIN FEATURES

- ▶ Power-over-Ethernet with only one Ethernet cable
- ▶ Transmission range of up to 150 m/164 yd using R. STAHL POE++ extender
- ▶ Ambient temperature range between -55 °C and +65 °C (-67 °F and +149 °F)
- ▶ Integrated Ex e connection chamber for easy installation directly in the hazardous area
- ▶ State-of-the-art camera technology: Full HD IP, WDR, Defog, 32x optical zoom
- ▶ Easy maintenance modular design
- ▶ Electropolished 1.4404 stainless steel enclosure ensures high level of corrosion resistance

CERTIFICATES



HARSH ENVIRONMENT

Noxious gas	ISA-71.04: 1985-04
EMC	EN 61000-4-3 (VDE 0847 Part 4-7) 2006 + A1:2008 + A2:2010

AMBIENT TEMPERATURE RANGE

from -55°C (-67°F) up to +65°C (+149°F)

IP SAFETY

IP 66



TECHNICAL DATA

GENERAL

Housing material: 1.4404 / 316L
 Electropolished surfaces Ex d e enclosure
 Silicone O-ring seals

MECHANICAL

Sunshield: included
 Unit weight: 14.35kg (31.6lb)

HOUSING WINDOW

Material: Thermally tempered glass

ELECTRICAL

Power supply: POE++ via R.STAHL Extender (receiver) in safe area
 Power consumption: 35W
 Heater: T-on 5°C (41°F),
 T-off 17°C (63°F)

VIDEO

Compression: H.264, MJPEG
 Number of streams: Up to 10 profiles
 Image resolution: 1920x1080
 Frame rate: H.264 60 fps all resolution
 MJPEG, 320x180 up to 800x600 max. 30 fps
 MJPEG, 1024x768 up to 1920x1080 max 15fps

CAMERA

Image device: 1/2.8" CMOS
 Effective pixels: 1944x1104 Px
 Lens: 4.44mm (wide) ... 142.6mm (tele)
 Zoom: 32x
 Viewing angle: H 62.8° (wide) to 2.23° (tele)
 V 36.8° (wide) to 1.26° (tele)
 Minimum object distance: 1.5m (4.92ft)
 Electronic shutter: 2 ~ 1/12,000sec
 White balance: ATW / AWC / Manual / Indoor / Outdoor / Mercury
 Gain: Off / Low / Middle / High
 Wide dynamic range: On / Off / VE
 Focus system: Auto / Manual / One push
 Intelligent video analytics: Tampering / Virtual line / Enter/Exit / (Dis-)Appear / Face detection
 Exposure Control: Minimum / Maximum / Anti flicker / ATW/AWC / Indoor / Outdoor / Mercury
 S/N ratio: 50dB
 Wide-D: 120dB
 Defog: Off / Auto / Manual
 Minimum illumination color: 0.3 Lux (1/30sec, F1.6, 50IRE)
 Minimum illumination B/W: 0.03 Lux (1/30sec, F1.6, 50IRE)

NETWORK

Ethernet connection
 POE++ Connection: Terminals in Ex e chamber
 POE++ via R.STAHL extender (receiver), accessory: CAT 7-1000MHZ-4x2AWG23 up to 150 m

NETWORK PROTOCOLS

Protocol: ONVIF Profile S
 Device configuration: TCP/IP, UDP/IP, RTP (UDP), RTP(TCP), HTTP, HTTPS, SSL, DHCP, PPPoE, FTP SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
 Streaming: RTSP, RTCP, NTP
 Streaming method: Unicast, Multicast
 Max user access: 10 users in Unicast mode
 Security: HTTPS (SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication
 Edge storage: SD/SDHC/SDXC - motion images recorded in the memory card can be downloaded

ENVIRONMENT

Operating temperature: -55°C (-67°F) up to +65°C (+149°F)

CERTIFICATIONS

ATEX: II 2 G Ex db eb op is IIC T4 Gb
 II 2 D Ex tb eb op is IIIC T135°C Db
 EN 60079-0:2012 +A11:2013
 EN 60079-1:2014
 EN 60079-7:2015
 EN 60079-31:2014
 IECEX: Ex db eb op is IIC T4 Gb
 Ex tb eb op is IIIC T135°C Db
 IEC 60079-0: 2011 (Ed.: 6) +Cor.2: 2013
 IEC 60079-1: 2014 (Ed.: 7)
 IEC 60079-7: 2015 (Ed.: 5)
 IEC 60079-31: 2013 (Ed.: 2)
 ATEX, IECEX: T4, -55°C to +80°C

ACCESSORIES

POE ++ Extender for EC-940-AFZ-HDI-06H Order No. 256800
 Pole adapter module EC-94x-AFZ Order No. 257047
 Corner adapter module EC-94x-AFZ Order No. 257048
 Parapet mounting bracket EC-94x-AFZ Order No. 257049
 Wall bracket EC-94x-AFZ Order No. 257043

MODELS

EC-940-AFZ-HDI-06H	Full HD POE++ Camera, needs R.STAHL POE++ extender	Power over Ethernet	-55°C up to +65°C -67°F up to +149°F
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TECHNICAL DRAWINGS

Sizes in millimeters

