EX-PROOF HD CAMERA SERIES WITH INTEGRATED EX E CHAMBER



EC-940-AFZ-Full HD IP - Standard

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 an create a potentially explosive environment, a reality often found in the oil and gas industries or marine and industrial sectors. Our innovative explosion-protected camera design – Ex d enclosures with extra Ex e connection chambers – offers many advantages in the plant.

The Ex d enclosure allows the integration of the latest camera technology at any time, thus ensuring that state-of-the art functions and features are always available in the hazardous area.

Our latest FULL HD IP camera provides the following functions: WDR, defog, 32x optical zoom, and ONVIF Profile S protocol,

and is available either as 230 VAC or 24 VDC version (wide range). The unique Ex e connection chamber allows easy and cost-effective installation of the camera in the hazardous area. Any additional junction boxes are no longer required.

ATEX and IECEx certified, this camera model is designed to operate in ambient temperatures between -55 °C and +60 °C (-67 °F and +140 °F) (24 VDC version).

This series also includes a PoE++ version with extender exclusively powered over Ethernet cable, and a fiber optic (Ex op is) version designed for transmission distances of up to 5 km (3.1 mi).



STAHL

TECHNICAL DATA

GENERAL

Housing material: 1.4404 / 316L

Electropolished surfaces Exd e enclosure Silicone O-ring seals

MECHANICAL

Sunshield: Unit weight:

HOUSING WINDOW

Material:

VIDEO

Compression: Number of streams:

Frame rate:

Image resolution:

ELECTRICAL

Power supply: Camera EC-940-AFZ-HDI-05H: Camera EC-940-AFZ-HDI-04H: Power consumption: Heater:

24V DC (18-75V DC) 230V AC (115-230V AC, 47-440 Hz) 35W T-on 5°C (41°F), T-off 17°C (63°F)

included

14.35kg (31.6lb)

Thermally tempered glass

H.264, MJPEG Up to 10 profiles 1920x1080 H.264, 60 fps all resolutions 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 optical zoom, 16x digital zoom		
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 / 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:	IEEE 802.3 100Base-Tx IEEE802.3af class 3 without heating Terminals in Ex e chamber			
NETWORK PROTOCOLS				
Protocol:	ONVIF Profile	S		
Device configuration:	TCP/IP, UDP/IP, RTP (UDP), RTP(TCP), HTTP, HTTPS, SSL, DHCP, PPPoE, FTP SMTP, ICMP, IGMF SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour)			
Streaming:	RTSP, RTCP, N	TP		
Streaming method:	Unicast, Multicast			
Max user access:	10 users in Un	10 users in Unicast mode		
Security:	HTTPS (SSL) login authentication, Digest login authentication, IP address filtering, User access log, 802.1x authentication			
Edge storage:		(C - motion images recorded in the can be downloaded		
ENVIRONMENT				
Operating temperature:				
Camera 230V AC:	-40°C (-40°F) เ	-40°C (-40°F) up to +6 °C (140°F)		
Camera 24V DC:	-55°C (-67°F) ι	up to +65°C (149°F)		
CERTIFICATIONS				
ATEX:	& II 2 G Ex db II 2 D Ex tb	eb IIC T4 Gb eb 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 IIC T4 Gb Ex tb eb IIIC T135°C Db			
	IEC 60079-0: 2 IEC 60079-1: 2 IEC 60079-7: 2 IEC 60079-31:	015 (Ed.: 5)		
	ATEX, IECEx:	ATEX, IECEx: T4, -55°C to +80°C		
ACCESSORIES				
Pole adapter module EC-94x-AFZ Corner adapter module EC-94x-AFZ Parapet mounting bracket EC-94x-AFZ Wall bracket EC-94x-AFZ		Order No. 257047 Order No. 257048 Order No. 257049 Order No. 257043		

EC-940-AFZ-HDI-05H	Full HD IP Camera	24 VDC	-55°C bis +60°C
EC-940-AFZ-HDI-04H	Full HD-IP Camera	230 VAC	-40°C bis +65°C

Both models can also be operated with PoE (class 3), but without heating (0°C to +65°C)

TECHNICAL DRAWINGS

Sizes in millimeters



