

EC-940S-AFZ-3PA-W24-56 Art. No. 257722



- Certified for hazardous zones 1, 2, 21, 22 acc. to ATEX, IECEX, EAC
- Analogue camera for real-time transmission.
- Enclosure electropolished and Silicon micro-blasted
- Delivery with armoured cable

WebCode **EC940SAFZAA**



R. STAHL's EC-940S-AFZ zoom cameras are all-round talents for surveillance in hazardous areas because in addition to an excellent panoramic view they also produce very good detailed images. This is guaranteed by the high image definition (550 TVL) and the optical 36x zoom of the analogue camera. The camera functions are controlled via RS-485 and PELCO D or Panasonic. The built-in wiper and the optional water tank also ensure a clear view. This analogue surveillance camera series transmits images in real-time, providing users with a non-stop overview in time-critical applications.

Technical Data

Explosion Protection

Application range (zones)	1 2 21 22
Certifications	ATEX, IECEX, EAC
IECEX gas certificate	ITS 16.0026X
IECEX gas explosion protection	Ex d IIC T5 Gb
IECEX dust certificate	ITS 16.0026X
IECEX dust explosion protection	Ex tb IIIC 100 °C Db IP66, 68,
ATEX gas certificate	16 ATEX 18446X
ATEX gas explosion protection	⊕ II 2 G Ex d IIC T5 Gb
ATEX dust certificate	16 ATEX 18446X
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC 100 °C Db IP66, 68,
EAC certificate	EAEU RU C-DE.HA91.B.00013/19
EAC gas explosion protection	1 Ex d IIC T5 Gb X 1 Ex d IIC T6 Gb X
EAC dust explosion protection	Ex tb IIIC T100°C Db X Ex tb IIIC T85 °C Db X
Lloyd's Register categories	ENV1, ENV2, ENV3, ENV5
Ship certificates	Lloyd's

Electrical Data

Rated operational voltage AC	24 V
Rated operational voltage DC	12 – 24 V
Rated operational current AC	2.2 A
Interfaces	RS-485 half duplex
I/O alarm	1x alarm input

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Electrical Data

I/O relay	1x relay output
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Camera Data

Sensor	1/4 EXView HAD CCD
TV system	PAL
Lens	f = 3.4 (w) to 122.4 mm (t), From F1.8 to F3.4
Viewing angle	57.8° (wide), 1.7° (tele)
Focus	Automatic focus
Zoom	36x optical
Resolution	550 TVL
Pixel	440000
Minimum working distance	10 mm (wide angle lens), 1500 mm (telephoto lens)
Minimum illumination B/W (ICR-ON)	0.01 lx, 1/3s
Minimum illumination color (ICR-OFF)	0.1 lx 1/3S
S/N ratio	> 50 dB
Back light compensation	On / Off
Electronic shutter	1/1 to 1/10000s
Amount privacy-maskings	0
WDR (dynamic range)	0 dB
White balance	Auto, ATW, internal, external, External auto, sodium vapour lamp (Fixed, auto, external auto) Auto), one-push, manual

Software

Serial Communication Protocol	Panasonic 850, Pelco D, Macro
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Ambient Conditions

Ambient temperature	-50 °C ... +65 °C
coldstart-range (with heater)	-40 °C

Mechanical Data

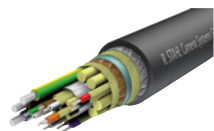
Version	Movable viewing angle
Degree of protection (IP)	IP66, 68,
Note on degree of protection	IP69 only enclosure
Enclosure material	1.4404 stainless steel
Surface treatment	Electropolished and Silicon micro-blasted
Cable structure	armoured cable
Cable length	4 m
Opening for cable gland	1 3/4" NPT with cable gland
Integrated wiper	Yes
Package weight	12.5 kg
Package dimensions	600 x 300 x 600 mm
Weight	8 kg
Weight	17.64 lb

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Accessories and Spare Parts

Camera multi-cable armoured

Art. No.

**VB-CAM-MULTI-Analog-ARM**

1 x coaxial cable
 3 x power supply 2.5 mm²
 7 x data cable 0.34 mm²
 -60 °C ... +80 °C
 16.5 ±0.3 mm outer diameter
 IEC 60332-1 flame-resistant
 IEC 60754-2 halogen-free
 DIN 60811-404 oil-resistant
 NEK 606 mud-resistant

252572

Ex e Terminal box

Art. No.

**JCT-8146-Ethernet+Analog 5xcable glands**

Terminal box, polyester resin
 Version for ethernet or analog cameras
 5 x cable glands:
 2 x CMP-25SC2KVAR KLE MsNi M25x1.5
 1 x 8161/7-M25-1707 with red stopping plug
 2 x 8161/7-M20-1304 with red stopping plug
 usable for:
 EC-750, EC-910-AFZ, EC-940S-AFZ (ATEX, IECEx)
 EC-840S-TIC (ATEX, IECEx), EC-940-PTZ, Water tank

265668

Water tank

Art. No.

**Water tank 10-PV-A**

316L (1.4404) stainless-steel enclosure, electropolished
 Capacity 10 litres
 Pressure generation by manual pumping or with compressed air
 Pressure: max 4 bar
 24 V AC/DC, max 20 W
 Temp. range -40 °C to +60 °C (depending on freezing point of liquid used)
 ATEX certified Zone 1, 2
 Suitable for EC-940-PTZ and EC-940S-AFZ

251366

Wall bracket

Art. No.

**Wall Bracket EC-x40S**

Suitable for EC-x40S series
 Material: 316L stainless steel, electropolished
 Capacity: max. 40 kg
 Length: 420 mm

251387

Pole adapter module




Art. No.

**Pole adapter module EC-x40S**

Suitable for EC-x40S
 For pole diameter 110 ... 150 mm
 Material: 316L stainless steel, electropolished
 Capacity: max. 50 kg
 Weight: 3.3 kg
 Only together with wall bracket EC-x40S type 251387

251380

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Corner adapter module		Art. No.
	<p>Corner adapter module EC-x40S Suitable for EC-x40S series Material: 316L stainless steel, electropolished Capacity: max. 50 kg Only together with wall bracket EC-x40S type 251387</p>	251381
Parapet mounting bracket		Art. No.
	<p>Parapet mounting bracket EC-x40S Suitable for EC-x40S series Material: 316L stainless steel, electropolished Capacity: max. 70 kg Height: 124 mm Only together with ball joint adapter EC-x40S type 251388</p>	251386
Ball joint		Art. No.
	<p>Ball joint x40S 316L stainless steel, electropolished Capacity: max. 40 kg Diameter: 101.6 mm</p>	251388

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