

EC-940S-AFZ-HGI-W2F-55B Art. No. 290557



- Certified for hazardous Zones 1, 2, 21, 22 acc. to ATEX, IECEx, NEC, CEC
- Super-Low-Light-Technology for extremely detailed images, even in difficult lighting conditions, day / night - functionality
- IP Camera with Full HD for optimum image quality
- Enclosure electropolished and Silicon micro-blasted
- Delivery with cable set (NEC / CEC)
- Digital image stabilization, dynamic masking

MY R. STAHL EC940SAFZIB



ONVIF



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 the result of the IP camera's high resolution (Full HD with 1920 x 1080), the optical 30x zoom and the brilliant image quality - the WDR function (120 dB) optimises the lighting of very bright or dark areas even in difficult lighting conditions. The built-in wiper and the defog function also ensure a clear view. The IP models are amongst the most modern cameras for hazardous areas and can be integrated into VMS systems worldwide via the ONVIF protocol (Profile Q, S and T).

### Technical Data

#### Explosion Protection

Application range (zones)	1 2 21 22
Certifications	ATEX, IECEx, NEC®, CE Code
IECEx gas certificate	ITS 16.0026X
IECEx gas explosion protection	Ex db IIC T5 Gb
IECEx dust certificate	ITS 16.0026X
IECEx dust explosion protection	Ex tb IIIC 100 °C Db IP66, 67, 68, 69
ATEX gas certificate	16 ATEX 18446X
ATEX gas explosion protection	⊕ II 2 G Ex db IIC T5 Gb
ATEX dust certificate	16 ATEX 18446X
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC 100 °C Db IP66, 67, 68, 69
NEC 505 dust explosion protection	Zone 21 AEx tb IIIC T100°C Db
Gas explosion protection CEC	Ex db IIC T5 Gb
Dust explosion protection CEC	Ex tb IIIC T100°C Db
Lloyd's Register categories	ENV1, ENV2, ENV3, ENV5

#### Electrical Data

Rated operational voltage AC	24 V
Rated operational voltage DC	12 ... 24 V
Rated operational current AC	2.2 A
Rated operational current for DC	2.2 – 3.5 A
Interfaces	RJ45 socket
Connection	Ethernet LAN 100Base-TX, RJ45

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### Electrical Data

I/O alarm	1x alarm input
I/O relay	1x relay output

### Camera Data

Sensor	1/2.8" Exmor R CMOS
Lens	f = 4.3 (w) to 129 mm (t) From F1.6 to F14
Viewing angle	63.7° to 2.3° H, 38.5° to 1.3° V
Focus	Auto, manual, trigger
Zoom	30x (360x digital zoom)
Resolution	Full HD 1080p 1920x1080 pixels
Pixel	2.13 megapixels
Minimum illumination B/W (ICR-ON)	0.0008 lx, 30 IRE
Minimum illumination color (ICR-OFF)	0.0013 lx 50 IRE
Number of streams	3 independent video streams Full HD Depending on configuration
Frame rate (fps)	1 to 60 frames per second
Back light compensation	On/Off
Electronic shutter	1/1 to 1/10,000s
Compression	H.264, MJPEG, JPEG, MPEG4
No. of privacy maskings	24 (8 simultaneously)
De-fog	Off/Low/Mid/High
WDR (dynamic range)	120 dB
White balance	AWB, ATW, internal, external (Fixed, auto), sodium vapour lamp (Fixed, auto, external auto)
Wide Dynamik Range	On/Off Light level, selection of Brightness compensation Light compensation level
Motion detection	Yes
Web server	Yes

### Software

Network protocol	ONVIF profiles Q,S,T
Network Configuration	TCP/IPv4-IPv6, UDP/IPv4-IP6, HTTP, HTTPS, NTP, DHCP, WS-DISCOVERY, DSCP, IGMP (Multicast), SOAP, DNS, SNMP
Streaming	RTSP, RTCP, RTP/IPv4, HTTP Multicast

### Ambient Conditions

Ambient temperature	-50 °C ... +65 °C
Cold start range (with heating)	-40°C up to -10°C

### Mechanical Data

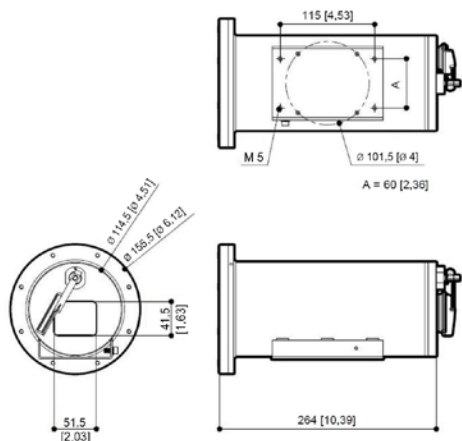
Version	Low-light technology
Degree of protection (IP)	IP66, 67, 68, 69
Enclosure material	Stainless steel 1.4404
Surface treatment	Shotblasted + electropolished
Cable structure	Unarmoured cable set
Cable length	4 m
Opening for cable gland	1 3/4" NPT with cable gland
Integrated wiper	Yes
Feature	Advanced image stabilisation
Package weight	12.5 kg
Package dimensions	600 x 300 x 600 mm

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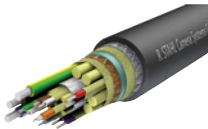
**Mechanical Data**


Weight	8.5 kg
Weight	18.74 lb

**Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations**









**Accessories**

Camera multi-cable armoured		Art. No.
	<p><b>VB-CAM-MULTI-Ethernet-ARM</b>                      1 x Ethernet cable                      3 x power supplies 2.5 mm<sup>2</sup>                      7 x data cable 0.34 mm<sup>2</sup>                      -60 °C ... +80 °C                      19.2 ±0.5 mm outer diameter                      IEC 60332-1 flame-resistant                      IEC 60754-2 halogen-free                      DIN 60811-404 oil-resistant                      NEK 606 mud-resistant                      Price and weight per m</p>	252571

Ex e Terminal box		Art. No.
	<p><b>JCT-8146-Ethernet+Analog 5xcable glands</b>                      Terminal box, polyester resin                      Version for ethernet Tx or analog cameras                      Dimensions without cable glands (HxWxD): 340.5 mm x 340.5 mm x 91 mm                      Ingress protection: IP66                      equipped with:                      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-94x-PTZ, Water tank</p>	265668

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Wall bracket		Art. No.
	<p><b>WB-EC-840S/EC-940S</b>                      Suitable for EC-x40S series                      Material: 316L stainless steel, electropolished                      Capacity: max. 40 kg                      Length: 420 mm</p>	251387
Pole adapter module		Art. No.
	<p><b>PMA-EC-840S /EC-940S</b>                      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</p>	251380
Corner adapter module		Art. No.
	<p><b>CMA-EC-840S /EC-940S</b>                      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><b>PM-EC-840S /EC-940S</b>                      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><b>MPT-Head-EC-840S/EC-940S</b>                      316L stainless steel, electropolished                      Capacity: max. 40 kg                      Diameter: 101.6 mm</p>	251388
Water tank		Art. No.
	<p><b>WaterTank 10-PV-A</b>                      316L (1.4404) stainless-steel enclosure, electropolished                      Capacity 10 litres                      Pressure generation by manual pumping or with compressed air                      Pressure: max 6 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-94x-PTZ and EC-940S-AFZ</p>	251366

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