

EC-840S-TIC-09I-HR2-456-B Art. No. 279760



- High-resolution IP thermal imaging camera with advanced radiometry
- Certified for hazardous zones 1, 2, 21, 22 acc. to ATEX, IECEx
- Enclosure made from electropolished and shot peened stainless steel (316L), ideal for clean rooms as well as the oil and gas industries
- Delivery with armoured cable

MY R. STAHL EC840STICIA



ONVIF 3.0



R. STAHL's EC-840S-TIC IP thermal imaging camera is one of the most modern explosion-protected cameras currently on the market. IP-based cameras are also enhanced with advanced radiometric functions that allow temperature detection based on the 4 central pixels of the image and they are capable of measuring the temperature of a specific object in any point of the image by defining a specific area. This range of versions includes a suitable model for every surveillance system: The IP cameras support the ONVIF protocol (profile S, Q, thermal service) for network integration worldwide. All models are available with either high or medium resolution. These surveillance cameras are certified acc. to ATEX and IECEx for hazardous zones 1, 2, 21 and 22 and are therefor suitable for installation in many regions.

### Technical Data

#### Explosion Protection

Application range (zones)	1, 2, 21, 22
Certifications	ATEX, IECEx
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, 68
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, 68
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
Rated operational current for DC	2.2 – 3.5 A
Interfaces	RJ45 socket
Connection	10/100Base-T
I/O alarm	1x alarm input
I/O relay	1x relay output

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### Camera Data

Sensor	Uncooled microbolometer
Lens	f = 9 mm, fixed , F 1.4
Viewing angle	69° H, 56° V
Zoom	2x, 4x, 8x digital
Resolution	< 30 mK to f/1.0
Total pixels	640 (H) x 512 (V)
Human (Recognise/Find/Identify)	250 m / 63 m / 31 m
Auto (Recognize/Find/Identify)	720 m / 175 m / 88 m
Number of streams	3 independent video streams
Thermal camera frequency	7.5 Hz
Electronic shutter	< 1s for sensor compensation
Compression	H.264, MJPEG, JPEG, MPEG4
Colour display	Configurable
Motion detection	Yes
Web server	Yes

### Software

Network protocol	ONVIF profiles Q,S,Thermal
Network Configuration	TCP/IPv4-IPv6, UDP/IPv4-IPv6, http, NTP, DHCP, WS- DISCOVERY, QoS, IGMP (Multi-cast)
Streaming	RTSP, RTCP, RTP/IPv4, HTTP Multicast

### Ambient Conditions

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

### Mechanical Data

Version	Fixed viewing angle
Degree of protection (IP)	IP66, 68
Note on degree of protection	IP69 only enclosure
Enclosure material	Stainless steel 316L
Surface treatment	Shotblasted + electropolished
Cable 1	Outer diameter: 20.0+/- 0.5 mm
Cable structure	Armoured cable
Cable length	4 m
Opening for cable gland	1 x 3/4" NPT
Integrated wiper	No
Feature	Germanium window with DLC
Package weight	12.5 kg
Package dimensions	600 x 300 x 600 mm
Weight	8.5 kg
Weight	18.74 lb

## Accessories

Camera multi-cable armoured

Art. No.

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	<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
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### 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
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### 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
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### 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
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### 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
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### Ball joint

### Art. No.



#### MPT-Head-EC-840S/EC-940S

316L stainless steel, electropolished

Capacity: max. 40 kg

Diameter: 101.6 mm

251388

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