

EC-840S-TIC-19I-UR2-456-B Art. No. 279866



- 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 therefore 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

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|----------------------------------|-----------------|
| 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

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|---------------------------------|------------------------------|
| Sensor | Uncooled microbolometer |
| Lens | f = 19 mm, fixed , F 1.25 |
| Viewing angle | 32° H, 26° V |
| Zoom | 2x, 4x, 8x digital |
| Resolution | < 30 mK to f/1.0 |
| Total pixels | 640 (H) x 512 (V) |
| Human (Recognise/Find/Identify) | 570 m / 144 m / 72 m |
| Auto (Recognize/Find/Identify) | 1550 m / 400 m / 200 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

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

Mechanical Data

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|------------------------------|--------------------------------|
| 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

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| | | |
|--|---|--------|
| | <p>VB-CAM-MULTI-Ethernet-ARM 1 x Ethernet cable 3 x power supplies 2.5 mm² 7 x data cable 0.34 mm² -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.

| | | |
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| | <p>JCT-8146-Ethernet+Analog 5xcable glands 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.

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| | <p>WB-EC-840S/EC-940S 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.

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| | <p>PMA-EC-840S /EC-940S 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>CMA-EC-840S /EC-940S 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.

| | | |
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| | <p>PM-EC-840S /EC-940S 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

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.