

EC-840S-TIC-19I-642-456 Art. No. 251330



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

WebCode **EC840STICIA**



R. STAHL's EC-840S-TIC-19I IP thermal imaging camera is one of the most modern explosion-protected cameras currently on the market. Its integrated thermography function ensures clear and safe recognition of changes in temperature by colour coding specific temperature zones - according to your settings, precisely tailored to the process under surveillance. This range of versions includes a suitable model for every surveillance system: The IP cameras support the ONVIF protocol (profile S) for network integration worldwide. All models are available with either high or medium resolution. These surveillance cameras are certified acc. to ATEX, IECEx and EAC 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, EAC
IECEx gas certificate	ITS 16.0026X
Gas explosion protection IECEx	Ex d IIC T5 Gb
IECEx dust certificate	ITS 16.0026X
Dust explosion protection IECEx	Ex tb IIIC 100 °C Db IP66, 68,
ATEX gas certificate	16 ATEX 18446X
Gas explosion protection ATEX	II 2 G Ex d IIC T5 Gb
ATEX dust certificate	16 ATEX 18446X
Dust explosion protection ATEX	II 2 D Ex tb IIIC 100 °C Db IP66, 68,
EAC certificate	EAEU RU C-DE.HA91.B.00013/19
Gas explosion protection EAC	1 Ex d IIC T5 Gb X 1 Ex d IIC T6 Gb X
Dust explosion protection EAC	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
Connection	Ethernet port LAN 10/100 T

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Electrical Data

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

Camera Data

Sensor	Uncooled microbolometer
Lens	f = 19 mm, fixed , F 1.25
Viewing angle	32° fixed
Zoom	2x, 4x, 8x digital
Resolution	< 50 mK to f/1.0
Total pixels	640 (H) x 512 (V)
Pixel	17 µm pixel size
Minimum illumination color (ICR-OFF)	0 lx
Person (detect/recog/ident)	570 m / 144 m / 72 m
Car (detect/recog/ident)	1550 m / 400 m / 200 m
Number of streams	2 independent video streams
Frame rate (fps)	8.3 PAL, 7.5 NTSC
Electronic shutter	< 1s for sensor compensation
Compression	H.264, MJPEG
Amount privacy-maskings	0
Colour display	Pallet LUT
WDR (dynamic range)	0 dB

Software

Network protocol	ONVIF profile S
Network Configuration	TCP/IPv4-IPv6, UDP/IPv4-IP6, http, NTP, DHCP, WS- DISCOVERY, QoS, IGMP (Multi-cast)
Streaming	RTSP, RTCP, RTP

Ambient Conditions

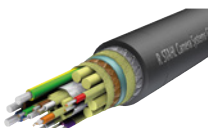
Ambient temperature	-50 °C ... +65 °C
coldstart-range (with heater)	-40 °C

Mechanical Data

Version	Fixed 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 length	4 m
Opening for cable gland	1 3/4" NPT with cable gland
Integrated wiper	No
Feature	Germanium window with DLC
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

Ball joint		Art. No.
	Ball joint x40S 316L stainless steel, electropolished Capacity: max. 40 kg Diameter: 101.6 mm	251388
Camera multi-cable armoured		Art. No.
	VB-CAM-MULTI-Ethernet-ARM 1 x Ethernet cable 3 x power supplies 2.5 mm ² 7 x data cable 0.34 mm ² -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 per metre	252571
Corner adapter module		Art. No.
	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	251381
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
Parapet mounting bracket		Art. No.
	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	251386
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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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

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.