Camera and Video systems
Thermal imaging IP camera Advanced radiometry

EC-840S-TIC-19I-ZR2-F55-B   Art. No. 279869

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

MY R. STAHL EC840STICIA

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, IECEx, NECand CEC 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, NEC®, CE Code
NEC / CEC certification	www.intertek.com/directories
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	⟨Ex⟩ II 2 G Ex db IIC T5 Gb
ATEX dust certificate	16 ATEX 18446X
ATEX dust explosion protection	⟨Ex⟩ 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

2025-04-16
V 0.67 EN

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Camera Data

Sensor	Uncooled microbolometer
Lens	f = 19 mm, fixed , F 1.25
Viewing angle	17° H, 13° V
Zoom	2x, 4x, 8x digital
Resolution	< 30 mK to f/1.0
Total pixels	336 (H) x 256 (V)
Human (Recognise/Find/Identify)	640 m / 180 m / 80 m
Auto (Recognize/Find/Identify)	1950 m / 500 m / 250 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
Number of streams 1	3 independent video streams

Software

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

Ambient Conditions

Ambient temperature	-50 °C ... +65 °C

Mechanical Data
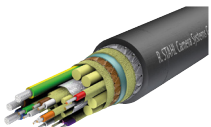
Version	Fixed viewing angle
Degree of protection (IP)	IP66, 68
Note on degree of protection	IP69 only enclosure
Enclosure material	Stainless steel 316L
Surface treatment	Shotblasted + electropolished
Cable structure	Cable set, open ends
Cable length	4 m
Opening for cable gland	1 x 3/4" NPT
Integrated wiper	No
Feature	Germanium window with DLC
Package weight	12.5 kg
Package dimensions	600 x 300 x 600 mm
Scope of delivery	Sun roof included
Weight	8.5 kg
Weight	18.74 lb

Accessories

Camera multi-cable armoured	**Art. No.**

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	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	252571

Ex e Terminal box		**Art. No.**
	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	265668

Wall bracket		**Art. No.**
	WB-EC-840S/EC-940S Suitable for EC-x40S series Material: 316L stainless steel, electropolished Capacity: max. 40 kg Length: 420 mm	251387

Pole adapter module		**Art. No.**
	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	251380

Corner adapter module		**Art. No.**
	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	251381

Parapet mounting bracket		**Art. No.**
	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	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.