

Camera and Video systems

Pan-tilt-zoom IP camera with video analytics



EC-941-V1C02T1MV00 Art. No. 289892



- PTZ camera with „dynamic masking“ for anonymisation and video analysis function for object tracking
- Full HD, low-light technology, ONVIF Q, S, T, electronic image stabilisation, and direct fibre optic connection
- Extremely fast rotating, extremely precise and up to 218 presets
- Ambient temperature -40° ... +65 °C
- Certified for hazardous areas Zone 1, 2, 21, 22, according to ATEX, ATEX, IECEx, NEC / CEC, Lloyd's

MY R. STAHL EC941A



ONVIF 000



The EC-941 PTZ camera is a state-of-the-art camera for hazardous areas, featuring highly professional surveillance functions such as dynamic masking, object recognition and object tracking. Thanks to its low-light technology it produces clear images even in difficult light. The camera can be integrated into modern video surveillance systems worldwide with the aid of the ONVIF protocol (profile Q, S and T). It is seawater-proof, has degree of protection IP66 and can be operated in temperatures ranging from -40 °C to +60 °C, for example on drilling rigs, refineries or tankfarms, as well as for process monitoring in chemical and pharmaceutical production.

Technical Data

Explosion Protection

Application range (zones)	1, 2, 21, 22
IECEX gas certificate	ULD 16.0005X
IECEX gas explosion protection	Ex db IIC T6...T5 Gb
IECEX dust certificate	ULD 16.0005X
IECEX dust explosion protection	Ex tb IIIC 100 °C Db
ATEX gas certificate	16 ATEX 1674X
ATEX gas explosion protection	Ex II 2 G Ex db IIC T6...T5 Gb
ATEX dust certificate	16 ATEX 1674X
ATEX dust explosion protection	Ex II 2 D Ex tb IIIC 100 °C Db
Lloyd's Register categories	ENV1, ENV2, ENV3, ENV5
Ship certificates	LR
Notice certification	When using the camera in maritime areas, the power line filter EPCOS / TDK B84112G0000B060 (279754) must be used !

Electrical Data

Rated operational voltage AC	230 V
Rated operational voltage DC	
Rated operational current AC	0.5 A
Power consumption	120 W
Interfaces	SFP port & RJ45 socket
Connection	10/100Base-T, 100Base FX
I/O alarm	1x alarm input
I/O relay	2x relay output

Camera Data

Sensor	1/2.8" Exmor R CMOS
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Camera Data

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
Number of preset positions	Up to 250
Accuracy of preset positions	0.02 °
Minimum illumination B/W (ICR-ON)	0.0008 lx, 30 IRE
Minimum illumination color (ICR-OFF)	0.0013 lx 50 IRE
Horizontal speed (variable)	0,1°/s ... 100°/s
Vertical speed (variable)	0,1°/s ... 100°/s
Number of streams	3 independent video streams
Frame rate (fps)	1 to 60 frames per second
Back light compensation	On/Off
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-IPv6, HTTP, HTTPS, NTP, DHCP, WS-DISCOVERY, DSCP, IGMP (Multicast), SOAP, DNS, SNMP
Streaming	RTSP, RTCP, RTP/IPv4, HTTP Multicast
Video analysis technology	Video Analytics

Ambient Conditions

Ambient temperature	-40 °C ... +60 °C
Cold start range (with heating)	-40°C up to -10°C

Mechanical Data

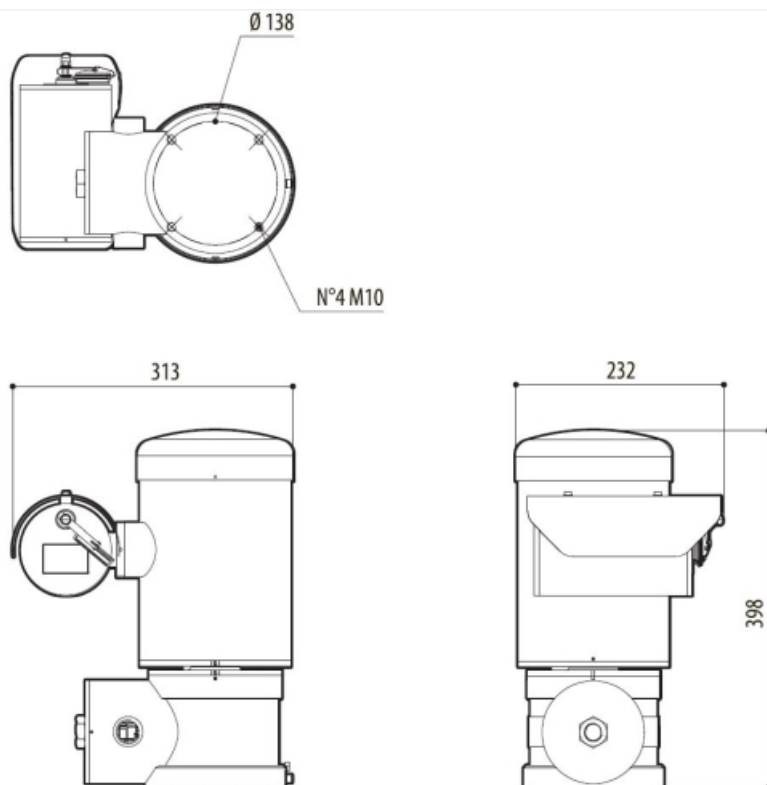
Version	Low-light technology Video analytics & autotracking
Degree of protection (IP)	IP66, 67, 68, 69
Enclosure material	Stainless steel 316L
Surface treatment	Shotblasted + electropolished
Cable length	0 m
Opening for cable gland	2 x 3/4" NPT
Slewing range	360° continuous
Tilt range	-90° ... +90°
Integrated wiper	Yes
Feature	Dynamic position control Advanced image stabilisation

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Mechanical Data

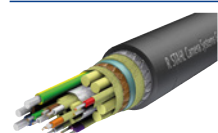
Package weight	29 kg
Package dimensions	500 x 420 x 260 mm
Weight	26.5 kg
Weight	58.42 lb

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



Accessories

Camera multi-cable armoured



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


Art. No.

252571

EC-941-V1C02T1MV00 Art. No. 289892


Ex e Terminal box

Art. No.

	<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>	<p>265668</p>
	<p>JCT-8146-22P-FO-BOX-4xM20-1xM25-R1.1 Terminal box, polyester resin Version for ethernet Tx and Fx, IP cameras Dimensions (HxWxD): 340.5 mm x 340.5 mm x 91 mm screwed lid Protection class: IP 66 Including TAG label (Formica) equipped with: 01x Telegärtner mounting rail distributor (6x SC Duplex) 20x Phoenix terminal block UT 2.5 02x Phoenix protective conductor terminal USLKG5 Cable entries: 01x brass plate 01x CMP 20sA2F M20, MsNi 01x CMP 20s16A2F M20, MsNi 02x M20 sealing plugs, nickel-plated brass (enclosed) 02x CMP 20sC2K M20, MsNi 01x CMP 25SC2KVAR M25, MsNi usable for: EC-941-PTZ</p>	<p>286343</p>


Wall bracket

Art. No.

	<p>WB-EC-940-PTZ/EC-941 Wall bracket for EC-940-PTZ and EC-941 Material: 316L (1.4404) stainless steel, electropolished Load capacity: max. 40 kg Length: 400 mm</p>	<p>251364</p>
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Pole mounting


Art. No.

	<p>PMA-EC-940-PTZ/EC-941 Pole mount adaptor for EC-940-PTZ and EC-941 Material: 316L (1.4404) stainless steel, electropolished For pole diameter 110 ... 150 mm Load capacity: max. 50 kg Only together with wall bracket WB-EC-940-PTZ/EC-941</p>	<p>251362</p>
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EC-941-V1C02T1MV00 Art. No. 289892


Corner adapter module

Art. No.

	<p>CMA-EC-940-PTZ/EC-941 Corner adapter module EC-940-PTZ and EC-941 Material: 316L (1.4404) stainless steel, electropolished Capacity: max. 50 kg WxH: 335 x 186 mm Only together with wall bracket WB-EC-940-PTZ/EC-941</p>	<p>251363</p>
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Parapet mounting bracket

Art. No.

	<p>PB-EC-940-PTZ/EC-941 Parapet mounting bracket for EC-940-PTZ and EC-941 Material: 316L (1.4404) stainless steel, electropolished Load capacity: max. 40 kg Diameter: 238 mm</p>	<p>251365</p>
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Power line filter

Art. No.

	<p>EMC filter TDK, 1phase, 250VAC, 6A EPCOS / TDK B84112G0000B060 Mandatory for use of cameras in maritime applications Filter Type: EMC Power Line Filter Voltage Rating: 250 V Current Rating: 6 A Mounting Style: Chassis Mount Termination Style: Tab Connector Leakage Current: 0.369 mA Operating Frequency: 50 Hz / 60 Hz Construction 2-line filter Metal case Polyurethane potting (UL 94 V-0) ENEC, UL and cUL approval</p>	<p>279754</p>
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Water tank

Art. No.


	<p>WaterTank 10-PV-A 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>	<p>251366</p>
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Cable glands

Art. No.

	<p>CMP-20s16PXSS2K-REX KLE MsNi 3/4 OR Metal cable gland explosion protected for unarmoured cable Clamping range: 3.1 ... 8.6 mm Potting compound 250599 CMP-RAPIDEX30 is additionally required</p>	<p>282717</p>
	<p>CMP-20sPXSS2K-REX KLE MsNi 3/4" OR Metal cable gland explosion protected for unarmoured cable Clamping range: 6.1 ... 11.7 mm Potting compound 250599 CMP-RAPIDEX30 is additionally required</p>	<p>282687</p>

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	<p>CMP-25sPX2K-REX cab.gl. n-pl. br. NPT 3/4" Metal cable gland Explosion-protected For armoured cables (suitable for 252571 VB-CAM-MULTI-Ethernet-ARM cables) Cable dia. range: 14 to 22 mm 250599 CMP-RAPIDEX30 compound is also required</p>	<p>251734</p>
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SFP Module		Art. No.
	<p>SFP Moxa SFP-1FEMLC-T Can be used in camera EC-941 Transmission: multi-mode Power consumption: max. 1 W Bandwidth: 100Base-FX / 100MBit/s Wavelength: 1310 nm Connector: LC duplex Distance: 2 km / 4 km Temperature range: -40 ° C ... + 85 ° C</p>	<p>282714</p>
	<p>SFP Barox AC-SFP-FXMME 100MB MM T Can be used in Barox Switch in safe areas, not useable in camera EC-941 Transmission: multi-mode Bandwidth: 100Base-FX / 100MBit/s Wavelength: 1310 nm Connector: LC duplex Distance: 2 km Temperature range: -40 ° C ... + 85 ° C</p>	<p>276421</p>

Spare Parts

Potting compound		Art. No.
	<p>CMP-RAPIDEX30 Potting compound for cable glands</p>	<p>250599</p>

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