

# Camera and Video systems

## Pan-tilt-zoom IP camera with video analytics



EC-941-V3C02T1MV00 Art. No. 289894



- 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 pre-sets
- 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



Our modern EC-941 PTZ range of cameras comes with a great deal of state-of-the-art functionalities:

All cameras come with the „dynamic masking“ feature to anonymise video data of faces so that they are no longer identifiable according to relevant privacy regulations. Additionally, there are camera variants with video analytics function for detection and tracking of moving objects and unauthorised persons on the plant premises.

### 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	120 V
Rated operational voltage DC	
Rated operational current AC	1 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

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### Camera Data

Sensor	1/2.8" Exmor R CMOS
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-IP6, 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

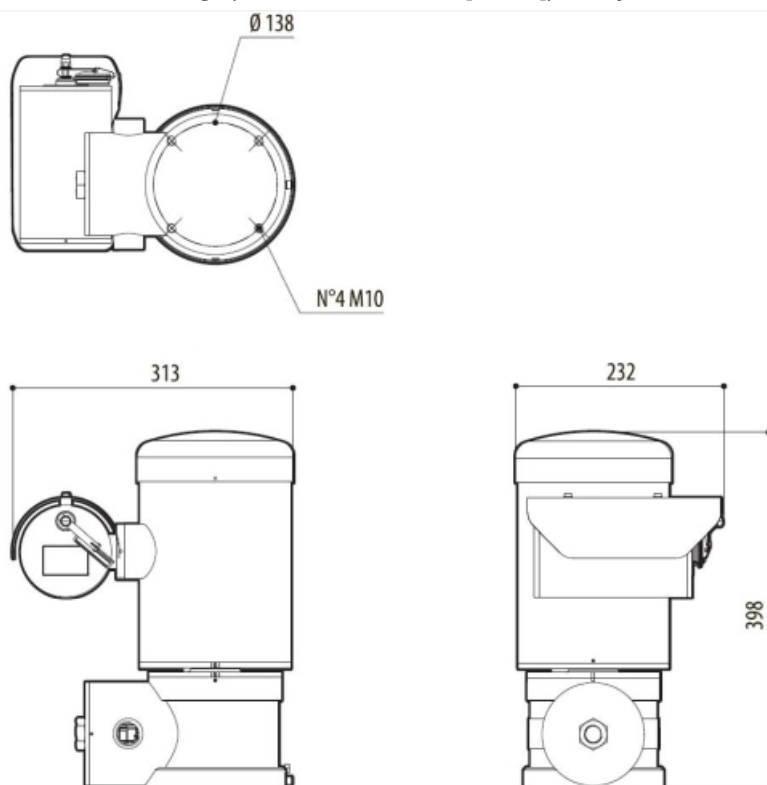
Version	Low-light technology Video analytics & autotracking
Degree of protection (IP)	IP66, 67, 68, 69
Enclosure material	Stainless steel 316L
Surface treatment	Shotblasted + electropolished
Cable length	0 m
Opening for cable gland	2 x 3/4" NPT
Slewing range	360° continuous
Tilt range	-90° ... +90°
Integrated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

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### Mechanical Data

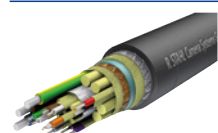
Feature	Dynamic position control Advanced image stabilisation
Package weight	29 kg
Package dimensions	500 x 420 x 260 mm
Weight	26.5 kg
Weight	58.42 lb

### 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 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 per metre

#### Art. No.

252571

EC-941-V3C02T1MV00 Art. No. 289894

**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

**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

286343

**Wall bracket**

**Art. No.**



**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

251364

**Pole mounting**

**Art. No.**



**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

251362

EC-941-V3C02T1MV00 Art. No. 289894


Corner adapter module

Art. No.

	<p><b>CMA-EC-940-PTZ/EC-941</b> 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><b>PB-EC-940-PTZ/EC-941</b> 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><b>EMC filter TDK, 1phase, 250VAC, 6A</b> 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><b>WaterTank 10-PV-A</b> 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><b>CMP-20s16PXSS2K-REX KLE MsNi 3/4" OR</b> 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><b>CMP-20sPXSS2K-REX KLE MsNi 3/4" OR</b> 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><b>CMP-25sPX2K-REX KLE MsNi NPT 3/4"</b>            Metal cable gland            explosion protected            for armoured cable (usable for cable 252571 VB-CAM-MULTI-Ethernet-ARM)            Clamping range: 14 ... 22 mm            Potting compound 250599 CMP-RAPIDEX30 is additionally required</p>	<p>251734</p>
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SFP Module	Art. No.	
	<p><b>SFP Moxa SFP-1FEMLC-T</b>            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><b>SFP Barox AC-SFP-FXMME 100MB MM T</b>            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><b>CMP-RAPIDEX30</b>            Potting compound for cable glands</p>	<p>250599</p>

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.