

EC-941-V3C02T0M000 Art. No. 278702



- PTZ camera with „dynamic masking“ for anonymisation of staff members and objects
- 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 Q S T



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.

### 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                                                                                     |
| cULus certificate               | E482740                                                                                                            |
| 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          |

#### Camera Data

|                  |                     |
|------------------|---------------------|
| Sensor           | 1/2.8" Exmor R CMOS |
| Day/night camera | Yes                 |

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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 optical                                                                                 |
| Resolution                           | Full HD 1080p 1920x1080 pixels                                                              |
| Pixel                                | 2.13 megapixels                                                                             |
| Number of preset positions           | Up to 250                                                                                   |
| Accuracy of preset positions         | 0.02 °                                                                                      |
| Min.light. B/W (ICR-ON)              | 0.0008 lx, 30 IRE                                                                           |
| 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                                                                                         |
| Number of streams 1                  | 3 independent video streams                                                                 |

### 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                                                                       |

### Ambient Conditions

|                     |                   |
|---------------------|-------------------|
| Ambient temperature | -40 °C ... +65 °C |
|---------------------|-------------------|

### Mechanical Data

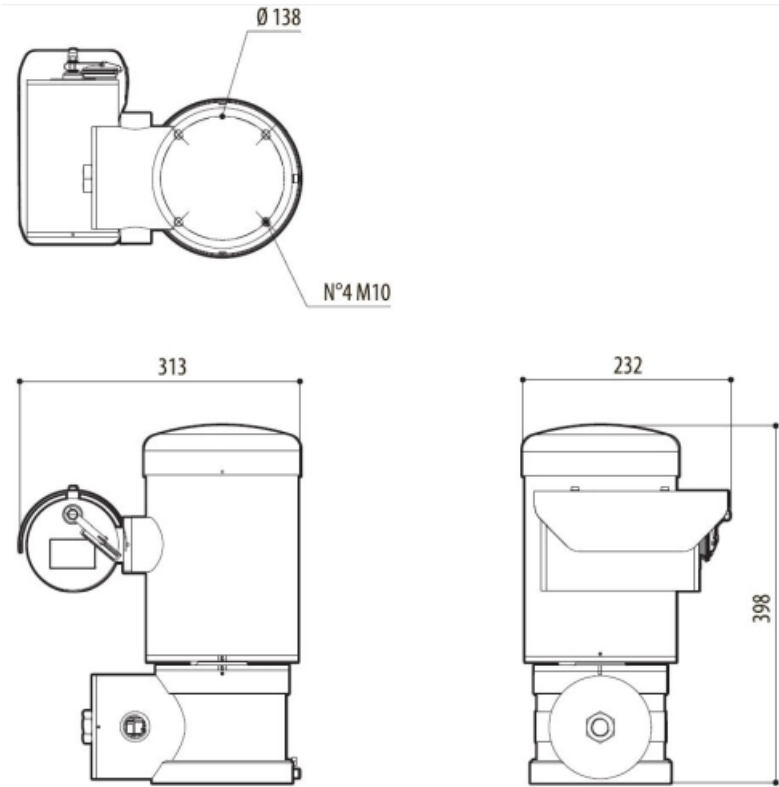
|                           |                                                       |
|---------------------------|-------------------------------------------------------|
| Version                   | Low-light technology                                  |
| Degree of protection (IP) | IP66, 67, 68, 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 |
| Package weight            | 29 kg                                                 |

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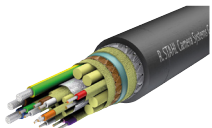
Mechanical Data

|                    |                    |
|--------------------|--------------------|
| Package dimensions | 500 x 420 x 260 mm |
| Scope of delivery  | Sun roof included  |
| Weight             | 26.5 kg            |
| Weight             | 58.42 lb           |

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



Accessories

| Camera multi-cable armoured                                                        |                                                                                                                                                                                                                                                                                                                  | Art. No. |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|  | <b>VB-CAM-MULTI-Ethernet-ARM</b><br>1 x Ethernet cable<br>3 x power supplies 2.5 mm²<br>7 x data cable 0.34 mm²<br>-60 °C ... +80 °C<br>19.2 ±0.5 mm outer diameter<br>IEC 60332-1 flame-resistant<br>IEC 60754-2 halogen-free<br>DIN 60811-404 oil-resistant<br>NEK 606 mud-resistant<br>Price and weight per m | 252571   |

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### 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

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### Corner adapter module

Art. No.

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

### Parapet mounting bracket

Art. No.

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

Art. No.

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

### Water tank

Art. No.

|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                               |        |
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|  | <b>WaterTank 10-PV-A</b><br>316L (1.4404) stainless-steel enclosure, electropolished<br>Capacity 10 litres<br>Pressure generation by manual pumping or with compressed air<br>Pressure: max 6 bar<br>24 V AC/DC, max 20 W<br>Temp. range -40 °C to +60 °C (depending on freezing point of liquid used)<br>ATEX certified Zone 1, 2<br>Suitable for EC-94x-PTZ and EC-940S-AFZ | 251366 |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|

### Cable glands

Art. No.

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

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|                                                                                  |                                                                                                                                                                                                                                                                |        |
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|  | <b>CMP-25sPX2K-REX cab.gl. n-pl. br. NPT 3/4"</b><br>Metal cable gland<br>Explosion-protected<br>For armoured cables (suitable for 252571 VB-CAM-MULTI-Ethernet-ARM cables)<br>Cable dia. range: 14 to 22 mm<br>250599 CMP-RAPIDEX30 compound is also required | 251734 |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|

| SFP Module                                                                       |                                                                                                                                                                                                                                                                                                  | Art. No. |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|  | <b>SFP Moxa SFP-1FEMLC-T</b><br>Can be used in camera EC-941<br>Transmission: multi-mode<br>Power consumption: max. 1 W<br>Bandwidth: 100Base-FX / 100MBit/s<br>Wavelength: 1310 nm<br>Connector: LC duplex<br>Distance: 2 km / 4 km<br>Temperature range: -40 ° C ... + 85 ° C                  | 282714   |
|                                                                                  | <b>SFP Barox AC-SFP-FXMME 100MB MM T</b><br>Can be used in Barox Switch in safe areas, not useable in camera EC-941<br>Transmission: multi-mode<br>Bandwidth: 100Base-FX / 100MBit/s<br>Wavelength: 1310 nm<br>Connector: LC duplex<br>Distance: 2 km<br>Temperature range: -40 ° C ... + 85 ° C | 276421   |

## Spare Parts

| Potting compound |                                                           | Art. No. |
|------------------|-----------------------------------------------------------|----------|
|                  | <b>CMP-RAPIDEX30</b><br>Potting compound for cable glands | 250599   |

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.