

EC-951-V3C02L8R2T1MV00 Art. No. 294438



- PTZ camera with additional IR illuminator for object detection at night
- With "dynamic masking" for anonymisation and video analytics function for detection object
- 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 EC951A



ONVIF



The EC-951 PTZ camera version is an extended version of the EC-941 camera and comes with an additional IR illuminator. The camera provides excellent object detection in dark or low-light situations at a range of up to 200 m.

All cameras come with the „dynamic masking“ feature to anonymise video data of faces so that are no longer identifiable according to relevant privacy regulations. This variant is also equipped with a video analysis function for object recognition and object tracking of strangers and objects in companies.

### 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...T4 Gb              |
| IECEX dust certificate          | ULD 16.0005X                      |
| IECEX dust explosion protection | Ex tb IIIC T85°C...T135°C Db      |
| ATEX gas certificate            | 16 ATEX 1674X                     |
| ATEX gas explosion protection   | Ex II 2 G Ex db IIC T6...T4 Gb    |
| ATEX dust certificate           | 16 ATEX 1674X                     |
| ATEX dust explosion protection  | Ex II 2 D Ex tb IIIC T85°C...T135 |
| cULus certificate               | E482740                           |
| Lloyd's Register categories     | ENV1, ENV2, ENV3, ENV5            |

#### Electrical Data

|                              |                          |
|------------------------------|--------------------------|
| Rated operational voltage AC | 120 V                    |
| 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                                        |
| 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           |

# Camera and Video systems

## Pan-tilt-zoom IP camera and illuminator

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### Camera Data

|                              |                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------|
| 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 °                                                                                      |
| Min.light. B/W (ICR-ON)      | 0.0008 lx, 30 IRE                                                                           |
| Horizontal speed (variable)  | 0,1°/s ... 100°/s                                                                           |
| Vertical speed (variable)    | 0,1°/s ... 100°/s                                                                           |
| 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

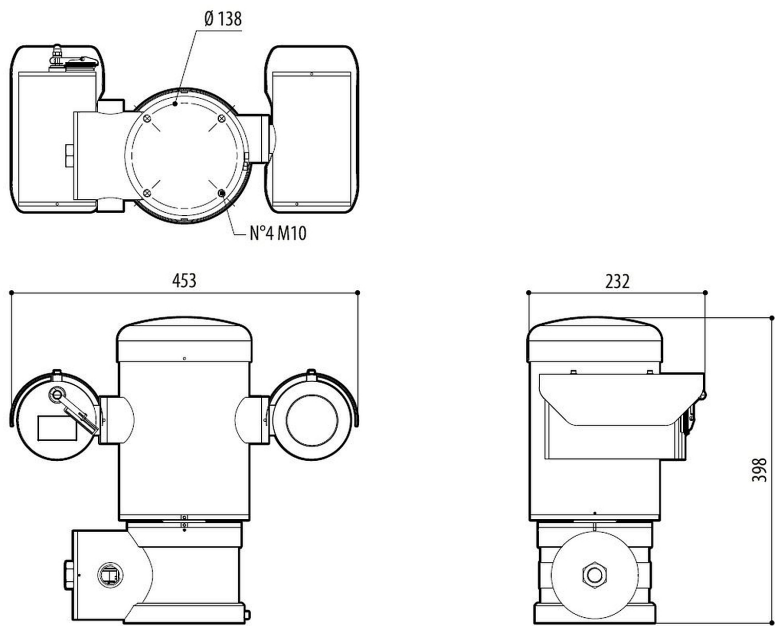
|                           |                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------|
| Network protocol          | ONVIF profile S and 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 & Autotracking                                                                              |

### Mechanical Data

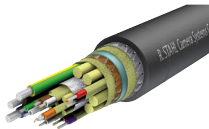
|                           |                                                                  |
|---------------------------|------------------------------------------------------------------|
| Version                   | Video analytics & autotracking<br>Low-light camera + illuminator |
| Degree of protection (IP) | IP66, 67, 68, 69                                                 |
| Enclosure material        | Stainless steel 316L                                             |
| Cable length              | 0 m                                                              |
| Opening for cable gland   | 2 x 3/4" NPT                                                     |
| Slewing range             | 360° continuous                                                  |
| Tilt range                | -90° ... +90°                                                    |
| Integrated wiper          | Yes                                                              |
| Package weight            | 35 kg                                                            |
| Package dimensions        | 540 x 310 x 490 mm                                               |
| Scope of delivery         | Sun roof included                                                |
| Weight                    | 31 kg                                                            |
| Weight                    | 68.34 lb                                                         |

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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 |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|

### Power line filter

Art. No.

|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|  | <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.

|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                               |        |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|  | <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 |

# Camera and Video systems

## Pan-tilt-zoom IP camera and illuminator

**STAHL**

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|                                                                                  |                                                                                                                                                                                                           |        |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|  | <b>CMP-25sPX2K-REX cab.gl. n-pl. br. NPT 3/4"</b>                                                                                                                                                         | 251734 |
|                                                                                  | 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 |        |

**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 |        |

**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.