

# Camera and Video systems

## Pan-tilt-zoom IP camera and illuminator



EC-951-V3C02L8R2T0M000 Art. No. 296135



- PTZ camera with additional IR illuminator for object detection at night
- With "dynamic masking" for anonymisation of staff 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 EC951A



ONVIF 000



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.

### 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 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
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

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### Camera Data

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 °
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

### 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

Cold start range (with heating)	-40°C up to -10°C
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### Mechanical Data

Version	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
Weight	31 kg
Weight	68.34 lb

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

## Accessories

Camera multi-cable armored

Art. No.

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	<p><b>VB-CAM-MULTI-Ethernet-ARM</b>            1 x Ethernet cable            3 x power supplies 2.5 mm<sup>2</sup> / AWG14            7 x data cable 0.34 mm<sup>2</sup> / AWG22            -60 °C ... +80 °C [-76 °F ... +176 °F]            19.2 ±0.5 mm [0.76 ±0.02 inches] outer diameter            IEC 60332-1 flame-resistant            IEC 60754-2 halogen-free            DIN 60811-404 oil-resistant            NEK 606 mud-resistant</p>	<p>252571</p>
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### Ex e Terminal box

### Art. No.

	<p><b>JCT-8146-Ethernet+Analog 5xcable glands</b>            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><b>JCT-8146-22P-FO-BOX-4xM20-1xM25-R1.1</b>            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><b>WB-EC-940-PTZ/EC-941</b>            Wall bracket for EC-940-PTZ and EC-941            Material: 316L (1.4404) stainless steel, electropolished            Load capacity: max. 40 kg [88.18 lb]            Length: 400 mm [15.75 inches]</p>	<p>251364</p>
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**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 [4.33 ... 5.9 inches]  
Load capacity: max. 50 kg [110.23 lb]  
Only together with wall bracket WB-EC-940-PTZ/EC-941

251362

**Corner adapter module**

**Art. No.**



**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 [110.23 lb]  
WxH: 335 x 186 mm [13.19 x 7.32 inches]  
Only together with wall bracket WB-EC-940-PTZ/EC-941

251363

**Parapet mounting bracket**

**Art. No.**



**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 [88.18 lb]  
Diameter: 238 mm [9.37 inches]

251365

**Power line filter**

**Art. No.**



**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

279754

**Water tank**

**Art. No.**



**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 4 bar  
24 V AC/DC, max 20 W  
Temp. range -40 °C to +60 °C / [-40 °F to +140 °F] (depending on freezing point of liquid used)  
ATEX certified Zone 1, 2  
Suitable for EC-94x-PTZ and EC-940S-AFZ



251366


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Cable glands		Art. No.
	<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	282717
	<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	282687
	<b>CMP-25sPX2K-REX cab.gl. n-pl. br. NPT 3/4"</b> 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	251734

SFP Module		Art. No.
	<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	282714
	<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	276421

## Spare Parts

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

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