

# Camera and Video systems

## Pan-tilt-zoom IP camera and illuminator



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 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 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 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 °
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 profile S and 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 & Autotracking

### Ambient Conditions

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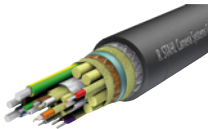

### Mechanical Data

Version	Video analytics & autotracking 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

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Accessories

		Art. No.
	<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                      Suitable for EC-910-AFZ, EC-940-PTZ-HDI and -HFI, EC-940-AFZ-HDI-O4H and -O5H, EC-940S-AFZ-Hxx, EC-840S-TIC-19I                      Price per meter</p>	252571
<p><b>Ex e Terminal box</b></p>		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>	265668
	<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>	286343

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### 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.

	<p><b>PMA-EC-940-PTZ/EC-941</b>                  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</p>	<p>251362</p>
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### 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 [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</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 [88.18 lb]                  Diameter: 238 mm [9.37 inches]</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 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</p>	251366
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>	282717
	<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>	282687
	<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>	251734
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>	282714
	<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>	276421

## Spare Parts

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