

# Full HD IP Pan-Tilt-Zoom Camera

## Series EC-941

STAHL



- Certified for hazardous Zones 1, 2, 21, 22 acc. to ATEX, IECEx, NEC, CEC, EAC, LR
- Low-light technology for particularly detailed images even in difficult light conditions, day / night - functionality
- Enclosure made from shot-peened and electropolished stainless steel (316L, 1.4404), ideal for oil and gas industries, chemistry, pharmacy
- Extremely precise pan-tilt surveillance camera with Full HD resolution (1920 x 1080), version with video analysis technology available
- Electronic image stabilizer, dynamic masking, SFP module slot for direct fiber optic connection

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WebCode EC941A



ONVIF



Use R. STAHL's EC-941 camera to keep all monitored areas in perfect view and to pan from one object to the next in no time at all - after all, it is the fastest pan-tilt camera for hazardous areas. Its Full HD resolution provides detailed images, and a wiper ensures free view at all times, making this surveillance camera ideal for all-round and detailed surveillance. It can be incorporated into state-of-the-art video systems worldwide, using the ONVIF protocol (Profile Q, S and T). In addition, it is seawater-proof, has ingress protection IP66 and can be used at temperatures from -40 °C to +65 °C, for example on drilling rigs, refineries or tankfarms, as well as for monitoring processes in the chemical and pharmaceutical production.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

	NEC 500 CEC Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Installation in		•		•		

	CEC Section 18					
	NEC® 505			NEC® 506		
	Class I					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

### Selection Table

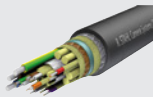
Resolution	Full HD 1080p 1920x1080 pixel
Viewing angle	63.7° - 2.3° H, 38.5° - 1.3° V
Horizontal speed (vari)	0,1°/s ... 100°/s
Vertical speed (vari)	0,1°/s ... 100°/s
Accuracy of presetpositions	0.02 °
Focus	Auto, manual, trigger
Network protocol	ONVIF Profile Q,S,T
Degree of protection (IP)	IP66, 67, 68, 69






Product Type	Rated operational voltage AC	Rated operational current AC	Video analysis technology	Art. No.	Weight kg
EC-941-V1C02T0M000	230 V	0.5 A	-	278310	26.500
EC-941-V2C02T0M000	24 V	5 A	-	278701	26.500
EC-941-V3C02T0M000	120 V	1 A	-	278702	26.500
EC-941-V1C02T1MV00	230 V	0.5 A	Video Analytics	289892	26.500
EC-941-V2C02T1MV00	24 V	5 A	Video Analytics	289893	26.500
EC-941-V3C02T1MV00	120 V	1 A	Video Analytics	289894	26.500

## Type code

Code	Description	EC	-	941	-	Vx	xxx	xx	xxxx	xxxxx
EC	Explosion protected camera									
-	Hyphen									
941	PTZ stainless steel camera									
-	Hyphen									
<b>Vx</b>	<b>Power supply</b>									
V1	Supply voltage 230 VAC									
V2	Supply voltage 24 VAC									
V3	Supply voltage 120 VAC									
<b>xxx</b>	<b>Visible light camera</b>									
C02	SONY FCB-EV7520 camera Super Low-Light day / night Full HD, 30x zoom									
<b>xx</b>	<b>Temperature class and ambient temperature range</b>									
T0	T6...T5, -40 °C ≤ Ta ≤ +60 °C or +70 °C									
T1	T6...T5...T4, -40 °C ≤ Ta ≤ +50 °C or +60 °C or +70 °C									
<b>xxxx</b>	<b>Model / version</b>									
M000	Standard model version									
MV00	Model version with video analytics									
<b>xxxxx</b>	<b>Cable connection</b>									
	Without cable gland									
P0400	Multiarm cable 4 m, cable gland (only for ATEX / IECEx)									
P0404	Multiarm cable 4 m, cable gland, SFP module, FO cable 4 m (only for ATEX / IECEx)									

## Accessories

Figure	Description	Art. No.	Weight kg
Camera multi-cable armoured			
	<b>VB-CAM-MULTI-Ethernet-ARM</b> 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	252571 ▲	0.472

Accessories			
Figure	Description	Art. No.	Weight kg
<b>Ex e Terminal box</b>			
	<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	0.800
	<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	-
<b>Wall bracket</b>			
	<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 Length: 400 mm</p>	251364	1.000
<b>Pole mounting</b>			
	<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 Load capacity: max. 50 kg Only together with wall bracket WB-EC-940-PTZ/EC-941</p>	251362	5.000
<b>Corner adapter module</b>			
	<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>	251363	2.000
<b>Parapet mounting bracket</b>			
	<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>	251365	1.000

Accessories			
Figure	Description	Art. No.	Weight kg
<b>Power line filter</b>			
	<b>Power Line Filter 2 line, 1 phase EMC filter 6A 250 volts</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	279754	0.200
<b>Water tank</b>			
	<b>Water tank 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 (depending on freezing point of liquid used) ATEX certified Zone 1, 2 Suitable for EC-94x-PTZ and EC-940S-AFZ	251366	18.000
<b>Cable glands</b>			
	<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	0.200
	<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	0.200
<b>Cable Glands</b>			
	<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	251734	0.370
<b>Potting compound</b>			
	<b>CMP-RAPIDEX30</b> Potting compound for cable glands	250599	0.055
<b>SFP Module</b>			
	<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	0.100
	<b>SFP Barox AC-SFP-FXMM 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	0.100

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

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