



- High-precision pan-tilt surveillance camera with Full HD resolution (1920 x 1080), 30x zoom and low-light technology for difficult light conditions
- PTZ camera with electronic image stabilizer and direct FO connection for great distances (SPF module)
- Versions featuring state-of-the-art video analysis functions such as object recognition and object tracking
- Dynamic masking of persons and locations in the interest of data protection
- Enclosure made of shot-peened electropolished stainless steel (316L, 1.4404), ideal for oil / gas, chemical and pharmaceutical industries
- Temperature range from -40 °C to +60 °C, certified for Zone 1, 2, 21, 22 acc. to ATEX, IECEx, NEC®, CE Code, LR

A9

### MY R. STAHL EC941A



The EC-941 PTZ camera is a state-of-the-art camera for hazardous areas, featuring highly professional surveillance functions such as dynamic masking, object recognition and object tracking. Thanks to its low-light technology it produces clear images even in difficult light. The camera can be integrated into modern video surveillance systems worldwide with the aid of the ONVIF protocol (profile Q, S and T). It is seawater-proof, has degree of protection IP66 and can be operated in temperatures ranging from -40 °C to +60 °C, for example on drilling rigs, refineries or tankfarms, as well as for process monitoring in chemical and pharmaceutical production.

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

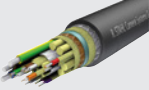




	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Installation in		•		•		

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

Selection Table						
Resolution	Full HD 1080p 1920x1080 pixels					
Viewing angle	63.7° to 2.3° H, 38.5° to 1.3° V					
Horizontal speed (variable)	0,1°/s ... 100°/s					
Vertical speed (variable)	0,1°/s ... 100°/s					
Accuracy of preset positions	0.02 °					
Focus	Auto, manual, trigger					
Network protocol	ONVIF profiles 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	
EC-941-V1C02T0M000	230 V	0.5 A	–	278310	26.5 kg	
EC-941-V2C02T0M000	24 V	5 A	–	278701	26.5 kg	
EC-941-V3C02T0M000	120 V	1 A	–	278702	26.5 kg	
EC-941-V1C02T1MV00	230 V	0.5 A	Video Analytics	289892	26.5 kg	
EC-941-V2C02T1MV00	24 V	5 A	Video Analytics	289893	26.5 kg	
EC-941-V3C02T1MV00	120 V	1 A	Video Analytics	289894	26.5 kg	

## Type code

Code	Description	EC	-	941	-	Vx	xxx	xx	xxxx	abbcdd
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>abbcdd</b>	<b>Cable connection</b>									
	Without cable gland									
<b>a</b>	<b>Kabel version 1</b>									
P	Multiarm cable									
M	FO multi-mode cable									
S	FO single mode cable									
<b>bb</b>	<b>Cable length 1</b>									
00	Without cable									
04	4 m									
10	10 m									
<b>c</b>	<b>Kabel version 2</b>									
0	Without cable									
P	Multiarm cable									
M	FO multi-mode cable									
S	FO single mode cable									
<b>dd</b>	<b>Cable length 2</b>									
00	Without cable									
04	4 m									
10	10 m									
	<b>Available versions</b>									
P04000	Multiarm cable 4 m, cable gland (only for ATEX / IECEx)									
P04M04	Multiarm cable 4 m, cable gland, SFP module, FO multi-mode cable 4 m (only for ATEX / IECEx)									
P04S04	Multiarm cable 4 m, cable gland, SFP module, FO single mode cable 4 m (only for ATEX / IECEx)									

Accessories			
Figure	Description	Art. No.	Weight
<b>Camera multi-cable armoured</b>			
	<p><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 and weight per m</p>	252571	472 g
<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	800 g
	<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 kg
<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 kg
<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 kg

Accessories			
Figure	Description	Art. No.	Weight
<b>Parapet mounting bracket</b>			
	<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	251365	1 kg
<b>Power line filter</b>			
	<b>EMC filter TDK, 1 phase, 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	279754	200 g
<b>Water tank</b>			
	<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 6 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 kg
<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	200 g
	<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	200 g
	<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	370 g
<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	100 g
	<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	100 g

Spare Parts

Figure	Description	Art. No.	Weight
Potting compound			
	<b>CMP-RAPIDEX30</b> Potting compound for cable glands	250599	55 g

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

