



07004T

Compact color camera Series EC-710-090 Ex

- Compact explosion proof color camera
- Smallest explosion proof camera worldwide
 - only 55 mm diameter
 - 435 gram
- Chemical, shock and vibration resistant
- Water and dust-proof (IP68)
- Heated lens surface to prevent condensation and frost
- Fixed viewing angle of 90 °
- High resolution
460 (PAL) / 470 (NTSC) lines

	Zones					
	0	1	2	20	21	22
Installation in	X	X		X	X	

STAHL

With a diameter of 55 millimeters the EC-710-090 Ex surveillance camera is the world's smallest explosion-proof camera. The optical system is protected by a chemically hardened lens. Even with the stainless steel housing it weighs no more than 436 grams and still resists ambient aggressive chemical substances as well as substantial mechanical stress, including vibrations. Moreover, the EC-710-90 Ex can withstand extreme temperatures, making it suitable for universal application in installations world-wide. The camera will work reliably in arctic conditions of down to - 30 °C as well as at desert temperatures of up to +75 °C. The camera's 1/3"-CCD sensor produces a PAL or CVBS image of either 470 or 580 TV lines. The fixed camera viewing angle is +/- 90° horizontally and 68° vertically.

Selection Table

Version	Description	Ordering code	Weight kg
Compact camera series EC-710-090	Compact explosion-proof color camera with a fixed lens viewing angle of 90°	EC-710-090	0,500



Technical Data	
Explosion protection	
ATEX	ATEX Kema, II 2 GD EEx m II T4 (T115 °C)
CCD	1/3" CCD Sensor PAL
CCD total pixels	798 (H) x 548 (V)
Minimum illumination	0.3 Lux at F1.2 5600 °K
Resolution	470 TVL / 580 TVL (extended)
Signal-noise ratio	52 dB (MIN) / 60 dB (TYP) (AGC OFF)
A.E.S. (automatic electronic shutter)	1/50 ~ 1/100,000 s
Video output	1.0 V p-p Composite Video at 75 Ohm
Gamma correction	0.45
Gain control	AGC (automatic gain control)
White balance mode	ATW / AWC (switchable)
White balance range	3200 - 10000 °K
Mirror function	REV. / NOR. Switchable via wire connected to 12 V DC +/- 3 V
Lens	4.3 mm, angle +/- 90° horizontal, +/- 68° vertical
Mechanical shock resistance	Shock and vibration resistant
Housing	316 Stainless steel
Operating temperature range	- 30 °C ... + 75 °C
Cable length	5.0 m (+ 0.1) cable
Power consumption	12 V DC +/- 15 %, consumption 250 mA heating ON, 85 mA heating OFF
Ingress Protection	Automatic shutdown < 11.1 V DC and > 16.1 V DC. Protection against extreme voltage 28 V DC (500 hrs.). With Ferrite T filter protection against spikes, ripples.
Electrical protection	
Automatic shutdown	
Minimum	<11.1V DC
Maximum	>16.1V DC
Electrical surge	28 V DC (500 h)

Accessories and Spare Parts			
Designation	Description	Ordering code	Weight kg
Ex e Junction Box	Ex e junction box • II 2 G EEx e II T6/T5 • II 2 D IP66 T80 °C, T95 °C • 8 terminals MXK4 • 2 PE terminals MSLKG 5 • 2 cable glands 8161-M16 • IP66 waterproof • black • Polyester material	JCT-8118-122-099-001	1,000
Multi cable	Multi cable universal • 1 coax + 5 wires • Price per metre	VB-CAM-MULTI-01-UNI	0,100
	Multi cable armoured • 1 coax + 5 wires • Mud and oil resistance • Price per metre, maximum of 100 metres between control box and camera	VB-CAM-MULTI-01-ARM	0,100
Videos erver	1-channel video server with 9 V power supply	VS-AXIS-241S	1,000
	4-channel video server with 9 V power supply	VS-AXIS-241Q	1,000

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.