EX-PROOF HD CAMERA IN A COMPACT DESIGN

EC-910-AFZ-Full HD IP – 10 x Zoom



The compact Full HD explosion-protected EC-910-AFZ Series is designed for effective video surveillance and process control in harsh environments where flammable gas or dust is present. The small size allows the installation even in small niches.

A clear advantage is the "plug and play" installation. The camera can be powered by PoE+. Power over Ethernet (+), uses the network cable for data and power distribution, which further simplifies the installation.

The Full HD, 1080p, with 10 x motorized zoom lens, offers multiple video streams (H.264/AVC, MJPEG, JPEG, and MPEG4) and provides exceptional image

quality, picking out every detail in a scene, even in the harshest environmental conditions. The camera is supplied with supports for wall, ceiling and parapet installation and with a sunshield as standard.

The housing is entirely manufactured in stainless steel AISI316L.

The IP66/IP67/IP68/IP69 level guarantees complete protection against bad weather and water immersion. Another important feature of the camera is the extended temperature range of -40° C to $+65^{\circ}$ C.

The EC-910-AFZ range of cameras meets every installation need, providing maximum performance and excellent value for money.



MAIN FEATURES

- Certifications for use in Zones 1 and 2, IIB T6 or T5 Group (Gas) and in Zones 21 and 22, IIIC T85°C or T100°C Group (Dust)
- Day/Night Full HD IP camera 1080p
- 10 x optical auto focus zoom. The camera is also available with 3 x Zoom
- Video compression H.264/AVC, MJPEG, JPEG and MPEG4
- Up to 3 simultaneous video streams
- Power supply: PoE+, 24VDC or 24VAC
- Without cable, with 4m (13ft) or 10m (33ft) preinstalled armoured multi cable with cable gland available
- AISI 316L stainless steel construction
- Wall-, ceiling mounting and sunshield are included as standard









EC-910 with Wall Mounting

EC-910 with Ceiling Mounting



AMBIENT TEMPERATURE RANGE

from -40°C (-40°F) up to +65°C (149°F)

IP PROTECTION

IP 66, 67, 68, 69

TECHNICAL DATA

GENERAL

Housing material:

Electro polished and shot peened outside surface

Fluorocarbon O-ring seals

MECHANICAL Sunshield: included Support for wall, ceiling or parapet installation Unit weight: 6.5 kg (14.3lb) housir

6.5 kg (14.3lb) housing + bracket 8.5 kg (18.7lb) housing with 4m multi cable

CABEL GLAND

De-Fog:

STAHL

Exposure control:

Cable entry: 1 x ½ "NPT Cable gland with gasket Ex d ½"NPT at version with preinstalled cable only

316L

HOUSING WINDOW

Material:	Thermally tempered glass 73.5 mm usable diameter		
ELECTRICAL			
Power supply:	24V AC , 1.32A, 50/60Hz, 21W 24V DC, 0.9A, 20W PoE+ (IEEE 802.3 at), 21W		
Armoured cable:	outer diameter 18.6 +/- 0.2 mm		
Colour: Composition:	Inner jacket diameter 13.8mm RAL 9005 black 3x1mm² (open wires) 4x2x0.22mm² (CAT5e F/STP) with RJ45 plug		
VIDEO			
Compression:	H.264/AVG, MJPEG, JPEG, MPEG4		
Number of streams:	Up to 3 profiles in Full HD		
Image resolution:	320x180 to 1920x1080 in 6 steps		
Frame rate:	1 to 60 images per second (fps)		
Streaming:	RTSP, RTCP,RTP/IPv4, HTTP		
CAMERA			
Image device:	1/2.8" CMOS		
Resolution:	Full HD 1080p (1920x1080)		
Effective pixels:	approx. 2.38 Mega Pixel		
Minimum Illumination:			
Color (ICR-OFF):	1.4lx 1/30s 50% (Normal mode)		
	0.35lx, 1/30s, 50% (High sensitivity mode)		
	0.19lx 1/3s 50% (Normal mode)		
Minimum Illumination,	0.05lx, 1/3s, 50% (High sensitivity mode)		
B/W (ICR-ON):	0.12lx 1/30s 50% (Normal mode)		
	0.03lx, 1/30s, 50% (High sensitivity mode)		
	0.002lx, 1/3s, 30% (High sensitivity mode)		
Lens:	3.8 mm (wide) 38 mm (tele)		
	F1.8 to 3.4		
Zoom:	10 x optical zoom, 12 x digital zoom		
Viewing angle 1080p:	H 67° (wide) to 7.6° (tele) V		
Minimum object distance:	10 mm (wide) to 800 mm (tele)		
Electronic shutter:	1/1 ~ 1/10,000sec, 22 steps		
White balance:	Auto, ATW, Indoor, Outdoor, Outdoor Auto, Sodium vapor lamp (Fix, Auto, Outdoor Auto), Manual		
Backlight compensation Wide dynamic range:	Yes On/Off/Visibility enhancer, Light level,		

CAMERA				
S/N Ratio:	50 dB			
Gain limit:	up to 43.5 dE	3		
NETWORK				
Ethernet connection:	IFFF 802 3 1	MBase-Tx		
Connector at cable tale:	IEEE 802.3 100Base-Tx RJ 45			
Communication protocol:	ONVIF Profile S and Q			
Device configuration:	TCP/IPv4, UDP/IPv4, HTTP, NTP, DHCP, WS-			
	DISCOVERY, IGMP (Multicast)			
Webserver Firmware	Configuration upgrade via web page and ONVIF			
- minimuro	protocol			
ENVIRONMENT	-40°C (-40°F) up to +65 °C (149°F)		
Operating temperature: Relative humidity:	From 10% to 95% no condensation			
nelative numuity.				
CERTIFICATIONS				
ATEX:	_	db IIB T6T5 Gb		
		😔 II 2 D Ex tb IIIC T85°CT100°C Db		
		EN 60079-0:2012 +A11:2013 EN 60079-1:2014		
	EN 60079-3			
1505				
IECEx:	Ex db IIB T	615 Gb 85°CT100°C Db		
	IEC 60079-0: 2011 (Ed.: 6)			
	IEC 60079-1: 2014-06 (Ed.: 7)			
	IEC 60079-3	81: 2013 (Ed.: 2)		
NEC (type without cabel	Pending			
only)	Class 1, Zone 1, AEx db IIB T6T5 Gb Zone 21, AEx tb IIIC T85°CT100°C Db			
	Class I, Div 2 Group C,D			
	Class II, Div	v 2 Group E,F,G		
CEC (type without cabel	Pending Ex db IIB T6T5 Gb Ex tb IIIC T85°CT100°C Db			
only)				
	Class I, Div 2 Group C,D			
		v 2 Group E,F,G		
TR-EAC	EX II 2G db IIB T6T5 Gb Ex II 2D Ex tb IIIC T85°CT100°C Db			
IP Protection (EN/IEC 60529)	IP66, 67, 68	(2h, 2m, 16 ft), 69		
ACCESSORIES (optional)				
Pole and Corner bracket		11111111111111111111111111111111111111		
in 316L stainless steel		A DESTRUCTION OF A		
Order-No. 264965	5			
		Transfermentation		
Max load:	30kg	<i>T</i>		
Pole diameters:	from 60 mm (2.36 in) up to 200 mm			
2	(7.9 in)			
Size:	120x86 mm (4.7 x3.4 in)			
PACKAGE				
Туре	Weight	Dimen. (wxhl)		
EC910-AFZ-103-P00	8 kg	32.5x19x23 cm		
EC-910-AFZ-I03-P04	11 kg	64x20.8x59 cm		

11 kg

64x20.8x59cm

EC-910-AFZ-I03-P10

Brightness compensation selection,

Auto, EV Compensation, Manual,

Priority (Shutter prio., Iris prio.)

Compensation level

Yes (ON/OFF)

MODELS

EC-910-AFZ-I10-P00	10x Full HD IP Camera	24 VDC, 24VAC or PoE+	Without cable, without cable gland
EC-910-AFZ-I10-P04	10x Full HD-IP Camera	24 VDC, 24 VAC or PoE+	4 m (13ft) armoured cable with gasket Ex d ½″NPT cable gland
EC-910-AFZ-I10-P10	10x Full HD-IP Camera	24 VDC, 24 VAC or PoE+	10 m (33ft) armoured cable with gasket Ex d ${\rm 1}\!\!\!\!/^{\prime\prime}_{\rm 2}$ NPT cable gland

The EC-910-AFZ is available with 3 x optical zoom as well: EC-910-AFZ-I03-PXX

TECHNICAL DRAWINGS

Sizes in millimeters Wall mounting: 06(X4) F 70 073 \$ F 0175 G F 78 52 116 G - G 1616 F-F 254.4 177

Parapet ceiling mounting:

