



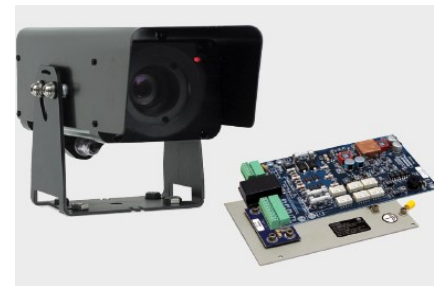
Stainless steel

## Zoom camera for hazardous areas

# EC-740-AFZ series

This zoom camera provides day and night surveillance for outdoor areas. In combination with the specific oil damper (optional accessory) this camera is the ideal crane accessory for harsh areas.

The two available enclosure types make the installation more flexible, the 316 stainless steel enclosure is the ideal choice for offshore applications, wherever the aluminum version is a light weight solution.



Aluminum

### Hardware Features

- Front glass hardened for scratch protection.
- IP 69K allows cleaning with a pressure cleaner 14-16L/min 80°C and 100 bar
- Heated lenses offer protection against condensation and frost
- The temperature range of -40°C up to 75°C allows worldwide operation without an additional enclosure.
- Zone 1, 2, 21, 22 (Gas / Dust)
- There is a 5m pigtail installed on the camera

### Hardware Types

Models	Description
EC-740-AFZ-EX-ALU-232-P	Aluminum AFZ with RS-232, PAL Module
EC-740-AFZ-EX-ALU-485-P	Aluminum AFZ with RS-485, PAL Module
EC-740-AFZ-EX-SST-232-P	Stainless steel AFZ with RS-232
EC-740-AFZ-EX-SST-485-P	Stainless steel AFZ with RS-485
EC-740-AFZ-EX-ALU-232-N	Aluminium AFZ with RS-232, NTSC Modul
EC-740-AFZ-EX-ALU-485-N	Aluminium AFZ with RS-485, NTSC Modul
EC-740-AFZ-EX-SST-232-N	Stainless steel AFZ with RS-232, NTSC Modul
EC-740-AFZ-EX-SST-485-N	Stainless steel AFZ with RS-485, NTSC Modul

### Explosion Protection:



IECEX NEM 13.0026X  
Nemko13ATEX1536X  
RU C-DE. Г Б 04.B.00321

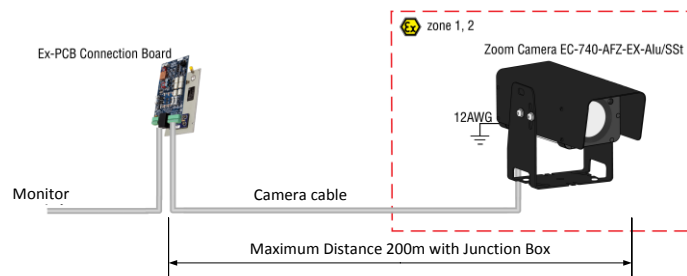
Zone 1, 2, 21, 22  
Ex II 2 G Ex mb IIC T6/T5/T4 Gb  
Ex II 2 D Ex mb IIIC T85/100/125°C Db

### Temperature Range:

T4: -40°C <+ 75°C,  
T5: -40°C <+ 50°C,  
T6: -40°C <+ 35°C.

Cold start: -10°C

### Operation principle



**NOTE:** The Ex certificate applies only when both, the Ex-PCB-Connection board and the Ex-camera are used together. For more installation and specification details see the Installation manual.

### IP Protection:

IP 68 according IEC 60529  
IP 69K according DIN 40050-9

# Autofocus Zoom Camera EC-740-AFZ-ALU/SST series



Data sheet 2015 | R1-0 | EN

Technical Data	
Sensor	1/4" type EX view HAD CCD
Resolution	752 (H) x 582 (V) (ca. 440.000 pixels), PAL 550 TVL (wide end)
Lens	F = 3.4 mm (wide) to 122.4 mm (tele). 36 x optical zoom, 12x digital, F=1.6 to F=4.5
Lens speed	From wide optical to tele 2.7 sec
Angle of view (H)	57.8° (wide) to 1.7° (tele)
Min. working distance	320 mm (wide), 1500 mm (tele)
Minimum Illumination	1,4 Lux (F1.6, 50 IRE)
Day/Night function	IR Cut filter (ICR)
White balance	AUTO, ATW, Indoor
S/N Ratio	50 dB or more
Video output	VBS: 1.0 Vp-p (sync negative)
Voltage	24V DC
Power consumption	Temperatur <0°C (heater on): 5,6W Temperatur >0°C (heater off): 3,6W
Cable	5.0m (+/-0.04m), cable should be mounted fixed
Protection	1.4 Bar overpressure filled with dry nitrogen, long term stability 0,1%/year
Fuse	The camera must be protected with a 315mA-T fuse, with 1500A breaking capacity. Placed on the Ex PCB-Connection Board, see installation manual.
Glass	Chemically hardened glass. 7x stronger than ordinary glass, scratch proof surface, following "VII Flachgläser" (German std.)
Bracket and mounting parts	Stainless steel 316, bracket and screws are parts of delivery
	EC-740-AFZ-EX-ALU      EC-740-AFZ-EX-SST
Housing	Sun cover and housing: aluminum (AlMgSi1)      Sun cover and housing: stainless steel 316
Weight	3 kg including 5m cable      6 kg including 5m cable
Communication	EC-740-AFZ-xxx-232-X      EC-740-AFZ-xxx-485-X
	RS-232, 9600 Baud, Pelco-D or Visca protocoll      RS-485, 9600 Baud, Pelco-D or Visca protocoll
Optional accessories	Ex e terminal box multicable non-armoured, multicable armoured, video encoder, Oil damp bracket for crane application, 7" or 15" Ex d monitor

## Dimensions (Units in mm)

