



Ex ia op is IIC T4 Ga

A complete and extremely robust camera system for transmission of a video signal from inside Ex-zone 0 to outside the hazardous area. The system can be used to monitor the inside of pipelines, tanks, silos, chemical production, waste and other hazardous process during production, inspection and cleaning. The system can also be used for monitoring and event control.

- Unique – **Ex-zone 0**
- Includes a powerful integrated **LED light**
- Maximum distance 110 m
- High ingress protect for camera **IP68**
- Submersible in Crude oil (25 meters, 2 hours)
- Ambient temperature **-20°C to +60°C**
- Control Unit output **Video signal, Ethernet (IP Camera) or Wi-Fi (IP Camera)**

The system comprises two parts: the Ex-zone 0 camera and the “safe area” control box.

The camera is mounted in a stainless steel enclosure with a glass front and is powered by an intrinsically safe power supply. As standard the unit is equipped with a wide-angle lens and a high intensity LED light.

The control box is located outside the hazardous area. It supplies the camera with intrinsically safe power and controls the light intensity, various outputs are available for various applications.



System	ESPO-5
Certificate	FTZÚ 23 ATEX 0094
.....	IECEX FTZU23.0029

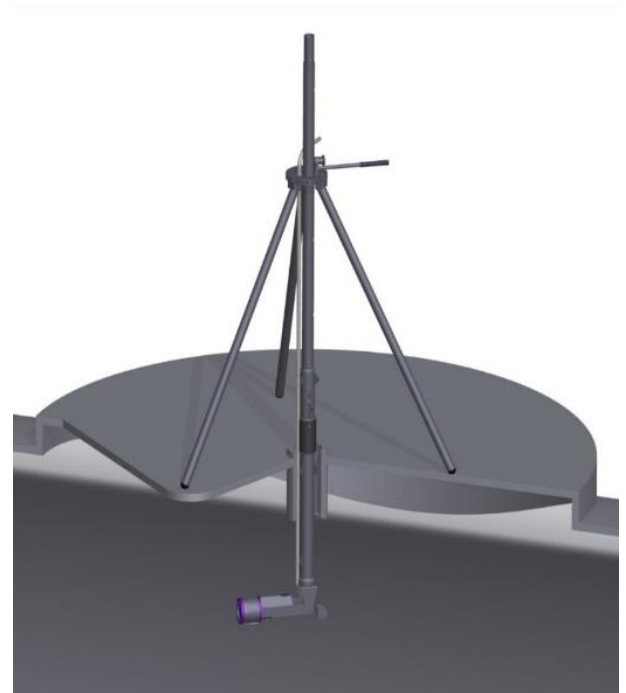
Camera – ESPO-5.K.1	
Protection	Ex ia op is IIC T4 Ga
Ingress Protection	IP68 Continuous submersion to 1 m (Oil submersible variant as option)
Ambient Temperature	-10°C to +60°C
Ambient pressure.....	800-1100 hPa
Electronic Shutter	1/50 – 1/100 000 s
Light Flux	175-75 Lumen (1-100m of cable)
Output Connection	110 m maximum length (multiple variants of connector position)
Enclosure Material	Stainless Steel
Dimensions - body	Ø 81,5 x 68,5 mm (Ø 3.22inch)
Weight	1.3 kg
Fixed Mounting Points	3x M8x7
Camera Resolution	PAL = approx. 720x576 pixel, 0.4Mpix



Control Unit - ESPO-5.Z.1	
Protection	[Ex ia Ga] IIC
Ingress Protection	IP40
Output Connection	cable 0,5 m
Ambient Temperature	-10°C to +40°C
Supply Voltage	230V
Power Consumption	12 W

- Optics variants**
- Prime lenses and LED optics available for user change (no zoom, fixed focus):
- Wide angle lens f2 - 50° (22 mm)
 - order: **ESPO-5.CA.CT.__.05.B**
 - Short tele lens f3 - 30° (80 mm)
 - order: **ESPO-5.CA.CW.__.05.B**

Accessories	
Handling Arm	Manual arm for tank inspection. Up to 6 meters of manipulation. Camera tilting capabilities inside the tank.



Elok reserve the right to make alterations to the technical specification without notice.

