



*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

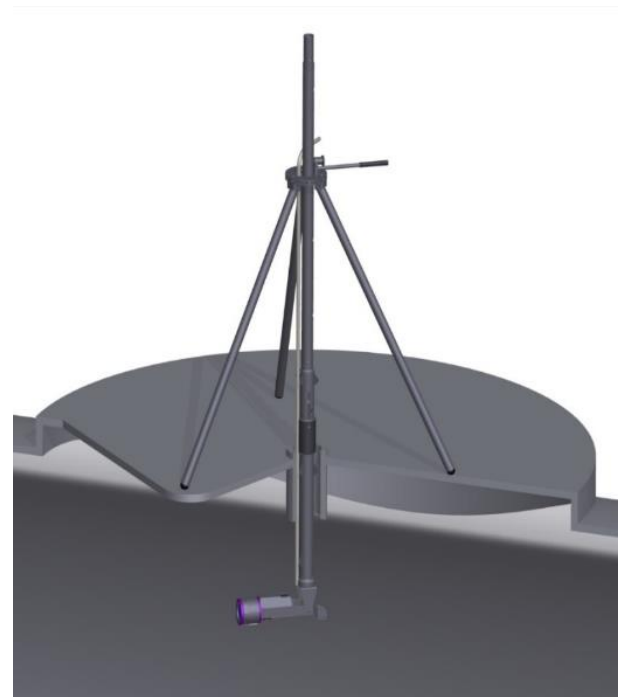
Camera – ESPO-5.K.1	
Protection .....	Ex ia op is IIC T4 Ga
Ingress Protection .....	IP68 Continuous submersion to 1 m <b>(Oil submersible variant as option)</b>
Ambient Temperature .....	-20°C to +60°C
Ambient pressure .....	800-1100 hPa
Electronic Shutter .....	1/50 – 1/100 000 s
Light Flux.....	175-75 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.

