



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 **-10°C to +40°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-1. CA

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 +40°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

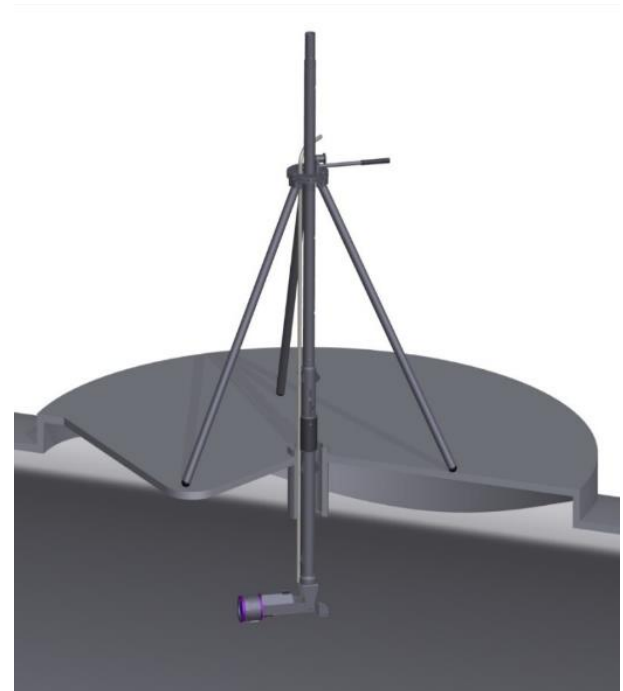
Optics variants

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.

