

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. 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 90 m zone0 + additional 100m Zone1
- 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)

The system comprises two parts: the Ex-zone 0 camera and the control box in Ex-zone 1.

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-1
Certificate	IECEX FTZU 20.0017X

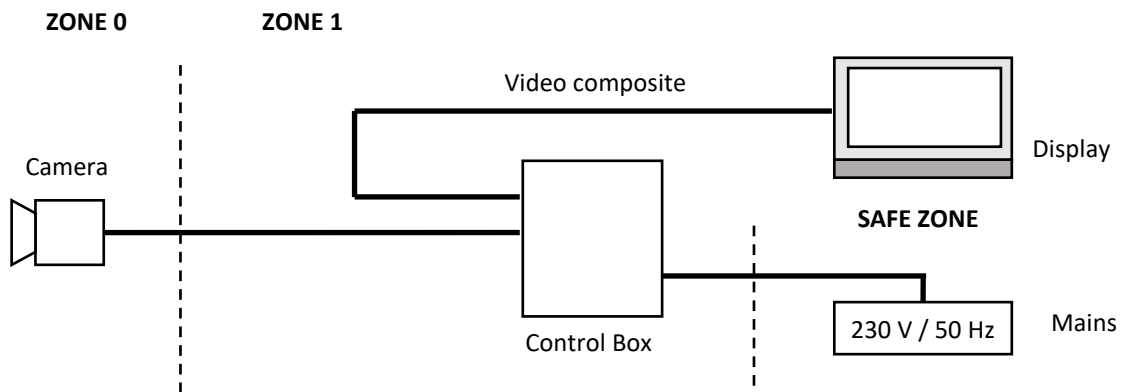
Camera – ESPO-2.K

Protection	Ex ia op is IIC T4 Ga
Ingress Protection	IP68 Continuous submersion to 1 m (Oil submersible variant as option)
Ambient Temperature	-20°C to +60°C
Ambient pressure	800-1100 hPa
Electronic Shutter	1/50 – 1/100 000 s
Light Flux	
Output Connection	90 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 -

Protection	Ex db [ia IIC Ga] IIB T4 Gb
Ingress Protection	IP68
Output Connection	ethernet 100m
Ambient Temperature	-20°C to +40°C
Supply Voltage	230V
Power Consumption	

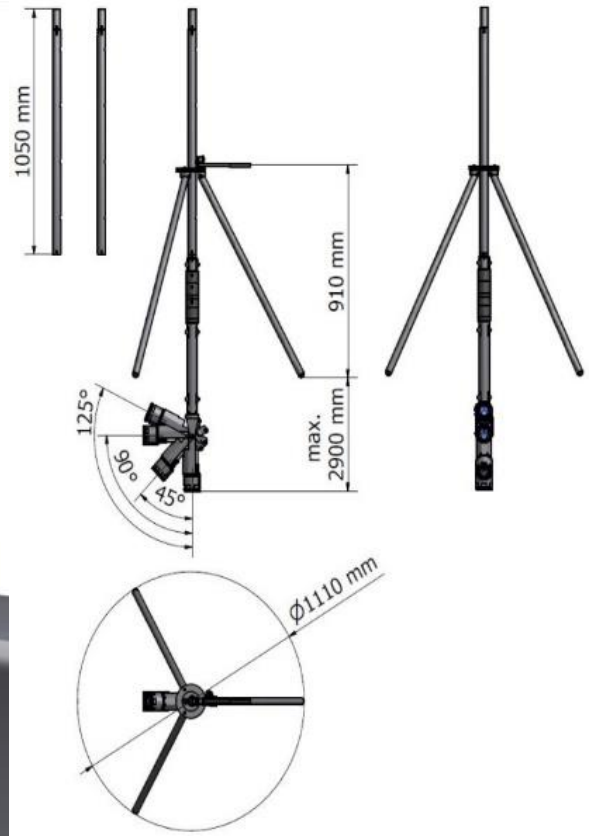
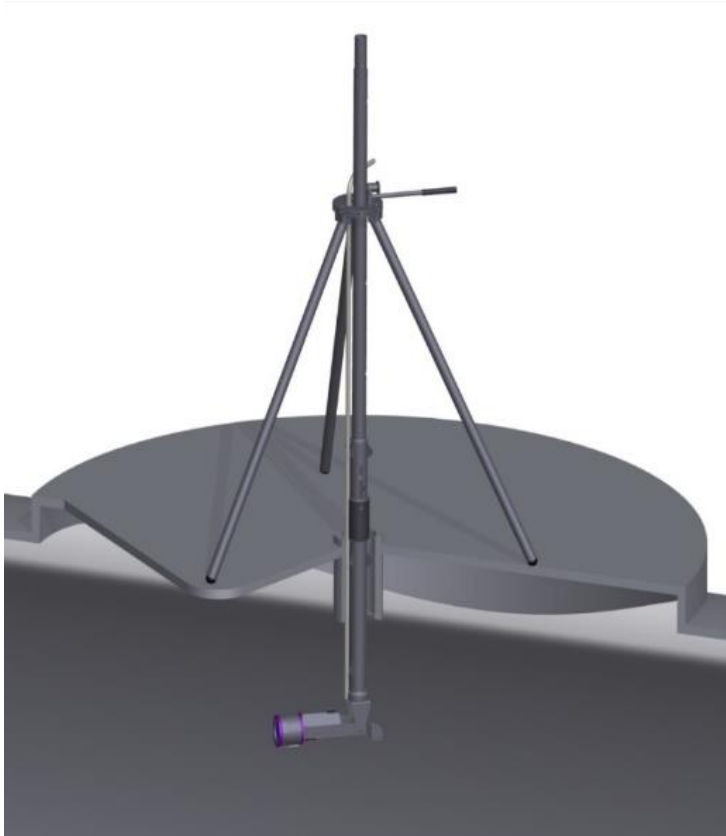


Elok reserve the right to make alterations to the technical specification without notice.

Accessories

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

order: **ESPO-1.HA.1**



Display 10.1" 1366x768 Display IPS
HDMI/VGA/NTSC/PAL



HD – capture box Recording via USB on flash drive or PC (SW included).
live analog to HDMI signal conversion.



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IP server Hybrid recorder *IP video server with 4 channel analog input. HDMI output, ethernet output. Internal HDD for video recording*

