

OE14-370/371



KONGSBERG



January 2016

COLOUR ZOOM CAMERA

- **36:1 zoom lens**
- **Extended angle of view**
- **Addressable serial control**

The Kongsberg Maritime OE14-370 (PAL) (OE14-371 (NTSC)) Colour Zoom Camera is introduced to complement the industry standard ROV inspection colour zoom camera, OE14-366a (and OE14-367a). This camera uses the latest CCD technology to give improved image definition.

When using digital control, the built-in field memory allows slower shutter speeds, a 'snapshot' capability and text insertion. The camera can also be given an ID number together with Time and Date.

The zoom lens provides a close-up inspection capability combined with the flexibility of a 36x magnification for powerful stand-off inspections.

The unique Kongsberg Maritime IR remote control allows long line drive and camera control set-up. Camera control can be single wire (tri-state) two wire (bi-polar) and RS485. RS232 is available as a factory set option.

It is possible to set the white balance to 3,200K, 5,800K or to auto tracking and back light compensation can be switched on or off using the remote control.

The inclusive Kongsberg Maritime Graphical User Interface provides the control of extensive camera functionality via the serial link. An addressable feature has been included allowing control of more than one camera over the same serial control line.

Applications

- Long Range Inspection
- Pipeline Inspection

TECHNICAL SPECIFICATIONS

Performance

Horizontal Resolution	550 TVL/PH
Light Sensitivity	100 mV video at 19×10^{-3} lux faceplate 350 mV video at 120×10^{-3} lux faceplate
Minimum Scene Illumination	0.2 lux
Signal to Noise Ratio	>48 dB (weighted)

Electrical

Scan Standard	625 lines 50Hz PAL (OE14-370) 525 lines 60Hz NTSC (OE14-371)
Sensor Elements	752 (H) x 582 (V) (OE14-370) 768 (H) x 494 (V) (OE14-371)
Video Output	1V pk - pk composite video into 75Ω
Power Input	16V - 24V dc, 650mA (max)
Control	Single wire (tri-state), two wire (bi-polar), RS232, RS485

Optical

Lens	3.4mm to 122mm, F1.6 to F4.5
AOV in water	Horizontal: 66° Wide Vertical: 49° Wide Diagonal: 83° Wide
Iris Control	Automatic (manual control available through GUI)
Focus Range	Front port to infinity (at wide angle) 850mm to infinity (at narrow angle)

Mechanical

Dimensions	Diameter 88mm Length 215mm (excl. connector)
Weight	In air 2.6Kg, in water 1.4Kg
Housing Material	Titanium alloy 6AL/4V ASTM B3 48
Connector	As per customer's specification

Environmental

Operating Depth	4,500 msw
Temperature	Operating -5 to 40°C, Storage -20 to 60°C
Shock	30G peak acceleration, 25ms half sine duration, on all three axes
Vibration	10G, from 20 to 150Hz on all three axes
Electromagnetic Compatibility	BS EN 61000-6-3: 2007 Emission and BS EN 61000-6-1: 2007 Immunity

Features

White Balance	Auto, 3,200K, 5,800K selectable through GUI or IR remote
Back Light Compensation	Switch on and off using the GUI or IR remote Long line drive, over voltage and reverse polarity protection

Specifications subject to change without any further notice

KONGSBERG MARITIME

Telephone: +44 1224 226500
E-mail sales: km.camsales.uk@kongsberg.com
E-mail support: km.camsupport.uk@kongsberg.com

www.km.kongsberg.com



KONGSBERG