

Pan and Tilt Zoom (PATZ) camera

oe15-122/123



OE15-122
1,000 metre model with internal
LEDs (above) and 3,000 metre
model (right)

- 10:1 optical zoom (40x with digital)
- Digital control
- Addressable

The Kongsberg Maritime OE15-122 (CCIR) and OE15-123 (EIA) underwater CCD monochrome cameras provide completely enclosed pan, tilt and zoom functionality previously unavailable. Based on similar technology to the well-proven Kongsberg Maritime OE14-112/3 Zoom, Rotate and Tilt (ZRAT) Camera the OE15-122/123 is most suitable for mounting on a horizontal axis. This allows the camera to be used in a restricted space without fear of fouling or in a multi-role environment when a camera is required to address multiple tasks. Close up inspection capability is obtained by using a 10x (40x with digital) zoom for powerful long-range viewing.

The OE15-122/123 uses the latest EXview HAD CCD and DSP technology giving excellent light sensitivity and image definition. When used with the GUI provided, control of the iris is possible, the camera can be given an ID number together with the ability to display Time and Date and a built-in field memory allows a snapshot capability. In addition, an advanced position on screen display feature is provided, as is the ability to control a series of cameras in a multi-drop arrangement.

The unique Kongsberg Maritime IR remote control allows long line drive and camera control set up without risking damage to the integrity of housing seals.

A 1,000 metre model is available for the small payload ROV.

Standard Features

Electrical

Horizontal Resolution	450 TV Lines (OE15-122) 470 TV Lines (OE15-123)
Light Sensitivity (limiting)	0.003 Lux (faceplate) 15% video
Sensor Type	¼" EXview HAD CCD
Signal to Noise Ratio	>48dB weighted (AGC off)
Scanning	625 Line/50 Hz CCIR 525 Line/60 Hz EIA
Power Input	Constant Voltage 16V - 24V dc, 550mA (max)
Video Output	1.0V Pk - Pk composite video into 75Ω
Electro-Magnetic Compatibility	BS EN 61000-6-3 2007 Emission BS EN 61000-6-1 2007 Immunity

Environmental

Water Depth	3,000 metres (1,000 metre option available)
Temperature	Operating -5°C to +40°C in Water Storage -20°C to +60°C
Vibration	10g, 20-150Hz, 3-axes (non-operating)
Shock	30g peak, 25mS half-sine pulse

Optical

Standard Lens	4.2mm to 42mm, F1.8 - F2.9
Iris Control	Automatic Override available with digital control
Focus Control	10mm to infinity (wide angle) 1000mm to infinity (narrow angle)
Angle of View	(1° *) 4° to 44° diagonal in water *with Digital Zoom

Mechanical

3,000 metre model

Diameter	157mm
Length	180mm (excl. connector)
Weight	5.5Kg in Air, 3.2Kg in Water
Standard Housing	Titanium Alloy 6AL/4V ASTM B3 48

1,000 metre model

Diameter	121mm
Length	159mm (excl. connector)
Weight	2.06Kg in Air, 0.54Kg in Water
Standard Housing	Hard Anodised Aluminium, Black Dyed
Connector	8 Pin Burton 5506-1508 (Side or Rear entry) Other connectors available

Pan and Tilt Coverage

Tilt	180° (±90°)
Pan	170° (±85°) including lens AOV zoomed wide
Pan and Tilt Control	RS232, RS485 or analogue

Option

Internal LED, Gimbal Mounted Illumination



KONGSBERG

tel: +44 (0)1224 226500
fax: +44 (0)1224 226501
email: km.camsales.uk@kongsberg.com
web: www.km.kongsberg.com/cameras