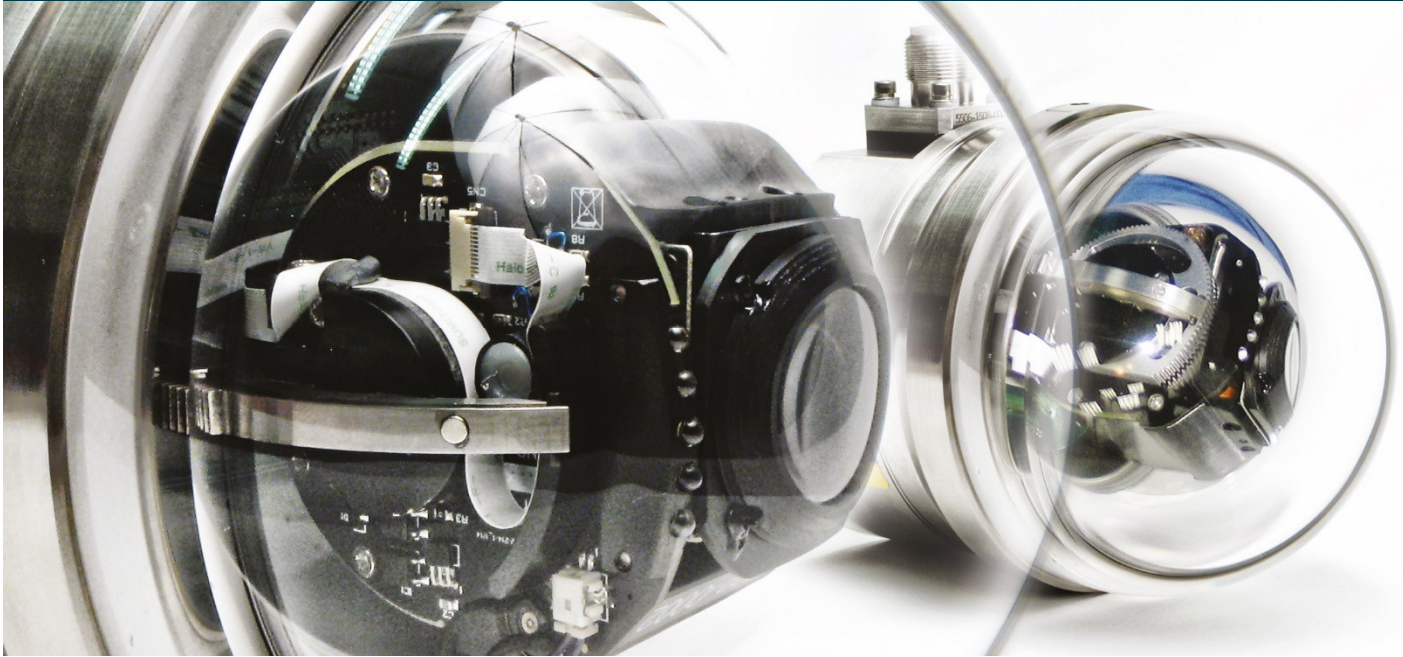


OE14-222/223



KONGSBERG



February 2016

COLOUR PAN AND TILT ZOOM (PATZ) CAMERA

- **10:1 optical zoom (with 40x digital)**
- **Head Position can be displayed on video**
- **Increased angular coverage**
- **Addressable**

The Kongsberg Maritime OE14-222 (PAL) and OE14-223 (NTSC) underwater CCD colour cameras provide completely enclosed pan, tilt and zoom functionality.

Based on similar technology to the well-proven Kongsberg Maritime OE14-122/3, Pan and Tilt Zoom (PATZ) Camera the OE14-222/3 (PATZ) has been upgraded using the latest technology, to be even more robust, to increase the lens angular movement and to have integral LED lighting as standard. This camera can be used in restricted spaces 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 zoom for powerful long-range viewing.

The OE14-222/223 uses the latest EXview HAD™ and DSP technology giving excellent light sensitivity and image definition. When used with the GUI provided, control of the iris is possible, LED lighting can be switched on or off, the camera can be given an ID number together with the ability to display time and date.

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 to be set, LED lighting to be switched on or off and camera control options selected without risking damage to the integrity of housing seals. A humidity sensor with a visual alarm to warn of excessive moisture levels is installed.

A 2,000 msw model is available for the smaller payload ROV.

Applications

- Inspection
- Tooling Skids
- Integrated Pan, Tilt and Zoom ROV Camera

TECHNICAL SPECIFICATIONS

Performance

Horizontal Resolution	460 TVL/PH (OE14-222), 470 TVL/PH (OE14-223)
Light Sensitivity	100 mV video at 40×10^{-3} lux faceplate 350 mV video at 0.3 lux faceplate
Minimum Scene Illumination	0.7 lux (nominal)
Signal to Noise Ratio	>50 dB (weighted)

Electrical

Scan Standard	625 lines 50Hz PAL (OE14-222) 525 lines 60Hz NTSC (OE14-223)
Sensor Elements	752 (H) x 582 (V) (OE14-222) 768 (H) x 494 (V) (OE14-223)
Video Output	1V pk - pk composite video into 75Ω
Power Input	16V - 30V dc, 650mA (max)
Inrush Current	1.2A at 16V dc
Control	Single wire (tri-state), RS232, RS485
Lighting	10 gimbal mounted LEDs, illumination at 1m – 130 Lux

Optical

Lens	4.2mm to 42mm, F1.8 to F2.9 10x Optical Zoom, 40x Digital Zoom
AOV in water (Wide zoom)	Horizontal: 36° Vertical: 26° Diagonal: 41.5°
Iris Control	Automatic (manual control available through GUI)
Focus Range	10mm to infinity (at wide angle), 1000mm to infinity (at narrow angle)

Angular Coverage

Tilt	205° (±102.5°)
Pan	176° (±88°) Both figures include lens AOV at wide zoom position

Mechanical

	4,500 msw model	2,000 msw model
Dimensions	Diameter: 148mm (at widest point) Length: 178mm (excl. connector)	Diameter: 123mm (at widest point) Length: 165mm (excl. connector)
Weight	In air 5.5Kg, in water 3.2Kg	In air 2.8Kg, in water 1.1Kg
Housing Material	Titanium alloy 6AL/4V ASTM B3 48	6082-T6 Marine Grade Aluminium
Connector	8 Pin Burton 5506 -1508, side or rear entry (other connector options are available)	

Environmental

Operating Depth	4,500 msw (other depth rated housing options are available)
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 Immunity and BS EN 61000-6-1: 2007 Emission

Features

White Balance	Switch between 3,200K, 5,800K & Auto using the remote control or GUI
Back Light Compensation	Switch on and off using the remote control or GUI

Specifications subject to change without any further notice

KONGSBERG MARITIME

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