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HIGH DEFINITION WIDE ANGLE COLOUR ZOOM CAMERA

- **Extended 82° Angle of View**
- **Multi-standard video capability**
- **10:1 optical zoom**

The Kongsberg Maritime OE14-504 Underwater HDTV Camera is designed and priced to be used for all general purpose ROV inspection tasks. Video output is available as Component (Y, Pb, Pr) and HD-SDI on coax or fibre connectors (Single or Multi-mode). CWDM alternative wavelengths are also available. It is possible to easily switch to high resolution composite video output if HD is not required for certain tasks.

The OE14-504 is a multi-standard camera with the ability to change video formats by IR remote control (RC) or by GUI.

Long line drive can be set by RC or GUI and allows the component signal to drive three matched coax cables with no degradation over three hundred metres. In addition to full control of the camera using the GUI, white balance can be set to 3,200K, 5,800K or to auto tracking and back light compensation can be switched on or off using the remote control.

A domed water compensated port and optical zoom

provide a close-up inspection capability combined with the flexibility of a 10x magnification for powerful stand off inspections.

The unique Kongsberg Maritime IR remote control also allows camera control set-up. Camera control can be single wire (tri-state), RS485 and RS232.

The inclusive Kongsberg Maritime Graphical User Interface (GUI) provides control functionality via the serial link.

Applications

- Marine Science
- Manned Submersible
- HD and SD High End Inspection
- Pipeline Inspection

TECHNICAL SPECIFICATIONS

Performance

Horizontal Resolution	800 TVL/PH
Light Sensitivity	100 mV video at 0.14 lux faceplate 350 mV video at 1 lux faceplate
Minimum Scene Illumination	2 lux assuming 100% scene reflectance
Signal to Noise Ratio	>54 dB (weighted)

Electrical

Scan Standard	1080i / 720p, 50 fps 1080i / 720p, 59.94 fps PAL / NTSC VBS Composite video
Sensor Elements	1920(H) x 1080 (V)
Video Output	HD-SDI video over coax, HD-SDI video over fibre (SM,MM,CWDM), Component (Y,Pb,Pr), PAL and NTSC composite video
Power Input	16 to 24 V dc, 700mA (max)
Control	Single wire (tri-state), RS232, RS485 (user selectable via IR remote)

Optical

Lens	5.1mm to 51mm, F1.8 10x Optical Zoom
AOV in water	Horizontal: 72° Vertical: 43° Diagonal: 82°
Iris Control	Automatic (Manual control through the GUI)
Focus Range	Front port to infinity (at wide angle) 160mm to Infinity (at narrow angle)

Mechanical

Dimensions	Diameter: 95mm (main body excl. hood) Length: 248mm (excl. connector)
Weight	In air 3.5Kg, in water 1.65Kg
Housing Material	Titanium Alloy, grade 5 6AL/4V ASTM B3 48
Connector	Configuration dependent

Environmental

Operating Depth	4,500 msw (deeper rated options 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 Emission and BS EN 61000-6-1: 2007 Immunity

Features

White Balance	Auto, 3,200K, 5,800K selectable through GUI or via IR remote
Back Light Compensation	Switchable through the GUI or via IR remote

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



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