

High definition wide angle colour zoom camera

oe14-502-wa



- High definition colour inspection camera
- Wide angle lens option (70° diagonal in water)
- Multi-standard video capability

The Kongsberg Maritime OE14-502-WA HD Underwater Camera with Wide Angle Lens option is designed for use in harsh environments and suitable for many applications with wide viewing requirements including pipe surveys.

The OE14-502-WA offers an angle of view up to 70° in water while retaining superb image and colour quality and none of the optical aberrations often associated with wide angle viewing.

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 affordable OE14-502-WA offers horizontal resolution of 800TVL/PPH, 10x optical zoom, 4,500 metre depth rating and has multi-standard video capability 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 two hundred metres. In addition to full control of the camera using the GUI, white balance can be set to 3,200K, 5,600K or to auto tracking and back light compensation can be switched on or off using the remote control.

The unique Kongsberg Maritime IR remote control also allows camera control configuration. Camera control can be single wire (tri-state), two wire (bi-polar), USB, RS485 and RS232.

Standard Features

Electrical

Horizontal Resolution	800 TV Lines per picture height
Picture Elements Video	1920(H) x 1080 (V)
Light Sensitivity (limiting)	0.1 Lux (faceplate)
Scene Illumination (limiting)	2 Lux assuming 100% scene reflectance
Sensor Type	1/3" CMOS sensor with colour mosaic filter
Signal to Noise Ratio	>54dB weighted
Power Input	Constant Voltage 16V-24vdc - 750mA max.
Video Output	HD Component Y/Pb/Pr or Composite
Video Output Options	HD-SDI - coax or fibre optic
Optical Output Option	CWDM (Coarse Wave Division Multiplex) Wavelength options
Standard Video Formats	1080i 50Hz or 60Hz Component, 720P 50Hz or 60Hz Component, PAL or NTSC Composite (Selected by IR or GUI)
White Balance	Switch between 3,200K, 5,600K and Auto using the Remote Control
Back Light Compensation	Switch on and off using the Remote Control
Electro-Magnetic Compatibility	EN61000-6.3 -2001 Emission/ EN61000-6-1 -2001 Immunity

Environmental

Water Depth	4,500 metres (other options 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	5.1mm to 51mm, F1.8
Iris Control	Automatic, Manual using the GUI
Focus Control	Front Port to infinity (wide angle) 800mm to infinity (narrow angle)
Zoom	10x Optical
Angle of View in Water	6.6° to 70° Diagonal 6.0° to 63° Horizontal 3.7° to 38° Vertical

Mechanical

Diameter	95mm (Main Body), 150mm (Front End), 167mm (Bump Guard)
Length	249mm (excl. Connector and Bump Guard)
Weight	4.7Kg in Air, 2.1Kg in Water
Standard Housing	Titanium Alloy 6AL/4V ASTM B3 48
Connector	Burton 5506-2008 (Y, Pb, Pr), 5506-1508 (HD-SDI)
HD-SDI Output	Seacon Opticon Fibre DG O'Brien Coax Other connectors available, including optional copper fibre or copper coax HD-SDI output hybrid connectors



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