

**HDTV HD-SDI Colour Zoom and Digital Camera**

oe14-500/501



- High Definition Colour Inspection Camera
- Digital Stills Capability
- 10:1 Optical Zoom Lens

The oe14-500/501 underwater HDTV camera is designed and priced to be used for all general purpose ROV inspection tasks. HD-SDI video output allows conversion to interface with a SM fibre or the camera can be supplied with a SM fibre output.

In addition to HDTV video the camera has an inbuilt 2.7 mega pixel digital stills capability.

A water compensated optical zoom lens provides 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 allows 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.

The inclusive Kongsberg Maritime Graphical User Interface provides control functionality via the digital link

**Standard Features****Electrical**

Horizontal Resolution	800 TV Lines per picture height
Picture Elements Video:	1836(H) x 1080 (V)
Picture Elements Digital Stills:	1920 x 1440
Light Sensitivity (limiting)	0.1 Lux (faceplate)
Scene Illumination (limiting)	1.5 Lux assuming 100% scene reflectance
Sensor Type	1/3" CMOS sensor with colour mosaic filter
Signal to Noise	>43dB weighted
Power Input	Constant Voltage 16V-30V dc 1A (max)
HD Video Output	HD-SDI (Serial Digital Interface) SM Fibre option available
Data Rate	1.5Gbps
Digital Stills	2.7 Mega pixel (4:3) 2 Mega pixel (16:9)
Digital Stills Format	JPEG
Stills Memory Stick	1 Gbyte
Stills Transfer:	USB V1.1
Electro-Magnetic Compatibility	EN61000-6.3 -2001 Emission EN61000-6-1 -2001 Immunity

**Environmental**

Water Depth	3000 metres (Other options available)
Temperature	Operating -5°C to +40°C in Water Storage -20°C to +60°C
Vibration	10g, 20-150Hz
Shock	3-axes (non-operating) 30g peak, 25ms half-sine pulse

**Optical**

Standard Lens	5.1mm to 51mm, F1.8
Iris Control	Automatic
Focus Control	Front Port to infinity (wide angle) 700mm to infinity (narrow angle)
Angle of View in water	3.3° to 50° Diagonal in water

**Mechanical**

Size	Diameter 149mm main body Diameter 163mm front end Length 325mm exc. connector
Weight	Air 10.3 Kg Water 4.6 Kg
Standard Housing	Titanium alloy6AL/4V ASTM B3 48
Control/power Connector	Burton 5506-1508
HD-SDI Out	D G O'Brien coax Seacon opti-con SM Fiber Other connectors available

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