

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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