

Enhanced CCD Camera

oe15-100a/101a



- Near - SIT Performance
- Advanced Signal Processing
- Aspheric Optical System

The Kongsberg Maritime oe15-100a (625 Line/50Hz) and oe15-101a (525 Line/60Hz) High Definition Enhanced CCD camera represents a break through in non-intensified camera performance. Advanced signal processing circuitry coupled with a high efficiency aspheric optical system provides near-SIT performance from a non-intensified CCD sensor. The camera is fitted as standard with a light-weight Titanium alloy pressure housing rated for 3,000 metre operation. The unique, high integrity housing design provides for a high degree of immunity to shock and vibration. The unique Kongsberg Maritime infra-red remote long line drive facility is fully implemented in conjunction with an extended range of camera protection features.

Standard Features**Electrical**

Horizontal Resolution	560 TV Lines / ph for oe15-100a 570 TV Lines / ph for oe15-101a
Light Sensitivity	1.3 x 10 ⁻³ Lux (faceplate) (15% video) (Seawater Equivalent Measurement)
Signal to Noise Ratio	> 48dB (CCIR weighted)
Scanning	625 Line / 50Hz CCIR for oe15-100a 525 Line / 60Hz EIA RS-170A for oe15-101a
Power Input	Constant Voltage 16-30V dc
Video Output	1.0V Pk - Pk composite video into 75Ω
Focus Control	12V Bi-polar option / Single-wire option
(with optional lenses only)	
Electro-Magnetic Compatibility	EN50081-1 Emission / EN50082-1 Immunity
Long Cable Drive	IR Remote Control Setting (1,200m max.) optional balanced cable drive

Environmental

Water Depth	3,000 metres, other options available
Temperature	Operating -5°C to +40°C Storage -20°C to +60°C
Vibration	10g, 20 - 150Hz, 3-axes (non-operating)
Shock	30g peak, 25mS half-sine pulse

Optical

Standard Lens	3.8mm f/0.8 Aspheric wide angle, other options available
Water Compensation	Plano-Concave Port
Iris Control	Automatic
Focus Control	Fixed, 1m to Infinity min. depth-of-field
Angle of View	Approx. 87° diagonal in water

Mechanical

Size	Diameter	80mm (3.15") main body
	Diameter	93mm (3.66") rubber guard
	Length	247mm (9.72") exc. connector
Weight	Air	2.2 Kg (4.8lb)
	Water	1.0 Kg (2.2lb)
Standard Housing	6Al/4V ASTM B 348 Titanium Alloy	
Connector	Sea-Con FAWM-8P-BCRA (or equivalent) Other Connector options available	

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