

High definition enhanced CCD camera

oe15-100c/101c



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

The Kongsberg Maritime OE15-100c (625 Line/50Hz) and OE15-101c (525 Line/60Hz) high definition enhanced CCD camera represents a breakthrough 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 with a light-weight titanium alloy pressure housing as standard, 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 infrared 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 (OE15-100c) 570 TV Lines/ph (OE15-101c)
Light Sensitivity (Limiting)	1.3 x 10 ⁻³ Lux (faceplate)(15% video) (Seawater Equivalent Measurement)
Signal to Noise Ratio	>48dB (CCIR weighted)
Scanning	625 Line/50Hz CCIR (OE15-100c) 525 Line/60Hz EIA RS-170A (OE15-101c)
Power Input	Constant Voltage 16V-30V dc
Video Output	1.0V Pk-Pk composite video into 75 Ω
Long Cable Drive	IR Remote Control Setting (1,200m max), optional balanced cable drive
Electro-Magnetic Compatibility	EN50081-1 Emission/ EN50082-1 Immunity
Focus Control (with optional lenses only)	12V Bi-polar option/Single-wire option

Environmental

Water Depth	3,000 metres, other options available
Temperature Range	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	4.2mm f/1.2 Varifocal, can be factory set from 4.0mm to 12.0mm
Water Compensation	Plano-Concave Port
Iris Control	Automatic
Focus Control	Fixed, 1m to Infinity min. depth-of-field
Angle of View	82° diagonal in water

Mechanical

Diameter	80mm (3.15")(main body), 93mm (3.66")(rubber guard)
Length	247mm (9.72")(excl. connector)
Weight	2.2Kg (4.8lb) in Air, 1.0Kg (2.2lb) in Water
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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