

OE15-100D/101D



KONGSBERG



December 2015

HIGH RESOLUTION ENHANCED MONOCHROME CCD CAMERA

- **Excellent low light performance**
- **4,500 msw titanium alloy housing**
- **102° diagonal AOV in water**

The Kongsberg Maritime OE15-100D/101D is a high resolution monochrome camera available in both CCIR (PAL) and EIA RS 170A (NTSC) video output formats. The camera offers exceptional low light sensitivity for applications with poor scene illumination, yet effectively replicating well illuminated scenes in high fidelity.

The wide AOV (102°) benefits the operator with excellent situational awareness for navigation and general viewing applications. Whilst the water corrected optical arrangement minimises distortion and aberrations.

The highly advanced internal electronic assembly is protected from harsh environments by a titanium alloy housing, depth rated to 4,500 msw.

The camera is supplied with an IR remote, allowing the user refined control of long line drive.

Applications

- Mid Water Navigation Tasks
- General Observation and Situational Awareness
- Manipulator & Tooling Tasks
- TMS and Tether Monitoring
- Mooring Chain Inspection

TECHNICAL SPECIFICATIONS

Performance

Horizontal Resolution	560 TVL/PH (OE15-100D) 570 TVL/PH (OE15-101D)
Light Sensitivity	350 mV video at 300×10^{-6} lux faceplate
Minimum Scene Illumination	5×10^{-3} lux
Signal to Noise Ratio	>50 dB

Electrical

Scan Standard	625 lines 50Hz CCIR (OE15-100D) 525 lines 60Hz EIA RS170A (OE15-101D)
Sensor Elements	752 (H) x 582 (V) (OE15-100D) 768 (H) x 492 (V) (OE15-101D)
Video Output	1V pk -pk composite video, into 75Ω
Power Input	16 to 30 V dc, 220mA

Optical

Lens	4mm - 12 mm Varifocal, F1.2
AOV in water	Horizontal: 77° Vertical: 59° Diagonal: 102°
Iris Control	Automatic
Focus Range	1m to Infinity, Fixed

Mechanical

Dimensions	Diameter: 82mm (main body), 86mm (front end) Length: 211mm (excl. connector)
Weight	In air 2.4Kg, in water 1.3Kg
Housing Material	Titanium alloy, 6AL/4V ASTM B3 48
Connector	Burton 5506-1508, other connector options available

Environmental

Operating Depth	4,500 msw
Temperature	Operating: -5 to 40°C, Storage: -20 to 60°C
Shock	30G peak acceleration, 25ms half sine duration, on all three axes
Vibration	10G, from 20 to 150Hz on all three axes
Electromagnetic Compatibility	BS EN 61000-6-3: 2007 Emission and BS EN 61000-6-1: 2007 Immunity

Features

Long Line Drive	IR Remote Control Setting (1,200m max), optional balanced cable drive
Water Compensation	Concentric Dome Port

Specifications subject to change without any further notice

oe15100d_Datasheet_US / Rev.B

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Telephone: +44 1224 226500
E-mail sales: km.camsales.uk@kongsberg.com
E-mail support: km.camsupport.uk@kongsberg.com

www.km.kongsberg.com



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