

OE15-108/109



KONGSBERG



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MINI MONOCHROME OBSERVATION CAMERA

- **High resolution CCD**
- **Compact dimensions**
- **Cost effective**
- **3,000 msw aluminium alloy housing**

The Kongsberg Maritime OE15-108/109 Miniature Monochrome Camera is available in both CCIR and EIA RS 170A video outputs.

This monochrome CCD camera provides cost effective general purpose under water viewing whilst maintaining compact dimensions.

The OE15-108/109 is robustly constructed with a tough, marine grade aluminium alloy pressure housing, rated to 3,000 msw operating depth. The OE15-108/109 is also available with 4500 msw and 6000 msw depth rated titanium alloy housings.

The camera has a fixed focus lens with a 73° diagonal angle of view in water and a focal range of 200mm to infinity, which makes it ideally suited to custom tooling applications, TMS monitoring, diver deployed tasks, process monitoring and ROV manipulator wrist camera applications.

Applications

- **ROV Manipulator Wrist Camera**
- **Tooling**
- **Non-critical Underwater Viewing**
- **TMS Monitoring**
- **Diver Helmet Mount**

TECHNICAL SPECIFICATIONS

Performance

Horizontal Resolution	400 TVL/PH
Light Sensitivity	100 mV video at 0.02 lux faceplate 350 mV video at 0.11 lux faceplate
Minimum Scene Illumination	0.41 lux
Signal to Noise Ratio	>50 dB (weighted)

Electrical

Scan Standard	625 lines 50Hz CCIR (OE15-108) 525 lines 60Hz EIA RS170A (OE15-109)
Sensor Elements	510 (H) x 492 (V) (OE15-108) 583 (H) x 500 (V) (OE15-109)
Video Output	1V pk -pk composite video, into 75Ω
Power Input	12 to 24 V dc, 110mA (max)

Optical

Lens	3.6 mm
AOV in water	Horizontal: 58° Vertical: 44° Diagonal: 73°
Iris Control	Fixed electronic iris with automatic shutter
Focus Range	200mm to Infinity, Fixed

Mechanical

Dimensions	Diameter: 40mm Length: 99mm (excl. connector)
Weight	In air 0.29Kg, in water 0.15Kg
Housing Material	Anodised aluminium alloy HE30T6 to BS1474
Connector	Subconn BH4M or equivalent (other connector options available)

Environmental

Operating Depth	3,000 msw (other depth rated housing options are available)
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 50081-1: 1992 Emission and BS EN 50082-1: 1992 Immunity

Specifications subject to change without any further notice

OE15108_Datasheet_A4 / Rev.B

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