

OE15-110/111



KONGSBERG



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GENERAL PURPOSE MONOCHROME INSPECTION CAMERA

- **High resolution CCD**
- **Excellent low light performance**
- **4,500 msw titanium alloy housing**
- **Cost effective**
- **Compact dimensions**

The Kongsberg Maritime OE15-110 CCIR and OE15-111 EIA RS170A mini camera combines the customary high standards of constructional integrity with a level of performance previously unavailable in a camera of this size, making it ideally suited to general purpose inspection use.

The camera has been designed as a cost effective option for applications where a small space envelope is essential such as on a manipulator wrist camera, custom tooling projects, ROV aft camera or tether monitoring. Due to its compact dimensions and low voltage DC input it is equally suitable for diver helmet mounting or bell observation tasks.

The OE15-110/111 takes advantage of the latest advances in miniaturised solid state technology, offering excellent low light faceplate sensitivity and good image definition in a robust housing which can sit comfortably in the palm of the hand.

The camera, which is rated to 4,500 msw (14,900 feet) water depth, is just 117mm in length (excluding the connector) and is supplied in a shock-resistant carrying case.

Applications

- **Inspection**
- **Diver Helmet Mounting**
- **Dive Bell Mounting**
- **Tooling**
- **Manipulator Wrist Camera**
- **TMS Monitoring**
- **Process and Gauge Monitoring**

TECHNICAL SPECIFICATIONS

Performance

Horizontal Resolution	600 TVL/PH
Light Sensitivity	100 mV video at 2×10^{-3} lux faceplate 350 mV video at 25×10^{-3} lux faceplate
Minimum Scene Illumination	0.02 lux
Signal to Noise Ratio	>50 dB (weighted)

Electrical

Scan Standard	625 lines 50Hz CCIR (OE15-110) 525 lines 60Hz EIA RS170A (OE15-111)
Sensor Elements	752 (H) x 492 (V) (OE15-110) 768 (H) x 494 (V) (OE15-111)
Video Output	1V pk -pk composite video, into 75Ω
Power Input	13 to 24 V dc, 150mA (max)

Optical

Lens	3.6 mm, F2.0
AOV in water	Horizontal: 57.2° Vertical: 43° Diagonal: 72.5°
Iris Control	Fixed electronic iris with automatic shutter
Focus Range	150mm to Infinity, Fixed

Mechanical

Dimensions	Diameter: 35mm Length: 117.5mm (excl. connector)
Weight	In air 0.365Kg, in water 0.252Kg
Housing Material	Titanium alloy, 6AL/4V ASTM B3 48
Connector	Subconn MCBH4M 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: 2001 Emission and BS EN 61000-6-1: 2001 Immunity

Features

Over voltage and reverse polarity protection

Specifications subject to change without any further notice

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