

# OE14-110/111



KONGSBERG



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## COMPACT COLOR CCD CAMERA

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- **Rugged**
- **Compact dimensions**

The Kongsberg Maritime OE14-110 (PAL) and OE14-111 (NTSC) Low Cost Mini Color Camera utilises the latest solid state sensor technology to provide a cost-effective, miniature color camera with excellent light sensitivity and image definition.

The units are robustly constructed with a tough marine grade aluminum alloy pressure housing rated to 3,000 msw operation as standard. Alternative housing materials and depth ratings are available.

Very compact dimensions make the OE14-110/111 ideally suited for ROV manipulation and tooling applications.

Auto shuttering, together with a wide AGC range give excellent light compensation at minimum cost. The lack of any moving parts and robust construction makes the camera extremely resistant to shock and vibration.

### Applications

- ROV Manipulation
- ROV Tooling
- General Observation
- Diver

# TECHNICAL SPECIFICATIONS

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## Performance

Horizontal Resolution	460 TVL/PH (OE14-110) 470 TVL/PH (OE14-111)
Light Sensitivity	100 mV video at $15 \times 10^{-3}$ lux faceplate 350mV video at $70 \times 10^{-3}$ lux faceplate
Minimum Scene Illumination	1 lux
Signal to Noise Ratio	>52 dB (weighted)

## Electrical

Scan Standard	625 lines 50Hz PAL (OE14-110) 525 lines 60Hz NTSC (OE14-111)
Sensor Elements	765 (H) x 582 (V) (OE14-110) 768 (H) x 492 (V) (OE14-111)
Video Output	1V pk - pk composite video into $75\Omega$
Power Input	12 - 24V dc, 250mA (max)

## Optical

Lens	2.5mm F/2.0
AOV in water	Horizontal: $61^\circ$ Vertical: $46^\circ$ Diagonal: $73^\circ$
Iris Control	Fixed electronic iris with automatic shutter
Focus Range	Fixed focus, 115mm to infinity

## Mechanical

Dimensions	Diameter: 40mm Length: 99mm (excl. connector)
Weight	In air 0.25Kg, in water 0.15Kg
Housing Material	Aluminum alloy HE30T6 to BS1470, Hard Anodized Black
Connector	BH-4M

## Environmental

Operating Depth	3,000 msw (other depth rated housing options are available)
Temperature	Operating: $-5$ to $40^\circ\text{C}$ , Storage: $-20$ to $60^\circ\text{C}$
Shock	30G peak acceleration, 25ms half sine duration
Vibration	10G, from 20 to 150Hz in 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*

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