

## Compact Colour CCD Camera

oe14-110/111



- Rugged
- Compact Dimensions

The Kongsberg Maritime oe14-110 (PAL) and oe14-111 (NTSC) Low Cost Mini Colour Camera utilises the latest solid state sensor technology to provide a cost-effective, miniature colour camera with excellent light sensitivity and image definition.

The units are robustly constructed with a tough marine grade aluminium alloy pressure housing rated to 3,000 metre operation as standard.

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.

**Standard Features****Electrical**

|                                |   |
|--------------------------------|---|
| Horizontal Resolution          | 350 TV Lines for oe14-110<br>360 TV Lines for oe14-111            |
| Light Sensitivity (limiting)   | 0.1 Lux (faceplate)   |
| Scene Illumination             | 1.9 Lux   |
| Sensor Type                    | 1/4" interline transfer CCD                                       |
| Signal to Noise                | > 52dB weighted (AGC off)   |
| Scanning                       | 625 Line/50Hz PAL for oe14-110<br>525 Line/60Hz NTSC for oe14-111 |
| Power Input                    | Constant Voltage 12V-24V dc, 200mA (max)                          |
| Video Output                   | 1.0V Pk-Pk composite video into 75Ω                               |
| Electro-Magnetic Compatibility | EN50081-1 Emission<br>EN50082-1 Immunity                          |

**Environmental**

|             |  |
|-------------|--|
| Water Depth | 3000 metres  |
| Temperature | Operating -5°C to +40°C in water<br>Storage -20°C to +60°C |
| Vibration   | 10g, 20-150Hz<br>3-axes (non-operating)                    |
| Shock       | 30g peak, 25mS half-sine pulse                             |

**Optical**

|               |                           |
|---------------|---------------------------|
| Standard Lens | 2.5mm F/1.8               |
| Iris Control  | Fixed                     |
| Focus Control | Fixed (115mm to infinity) |
| Angle of View | 73° Diagonal in water     |

**Mechanical**

|                  |                                     |                     |
|------------------|-------------------------------------|---------------------|
| Size             | Diameter                            | 40mm exc. guard     |
|                  | Length                              | 99mm exc. connector |
| Weight           | Air                                 | 0.25kg              |
|                  | Water                               | 0.15kg              |
| Standard Housing | Aluminium alloy 6082 T6             |                     |
| Connector        | BH-4M<br>Other connectors available |                     |

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