

# OE14-376/377



KONGSBERG



December 2015

## LIGHT RING COLOR CAMERA

- **Integral high output LED lighting**
- **Ruggedised 3,000 msw aluminum alloy housing**
- **Electronic iris**
- **Compact dimensions**

The compact color camera with integral LED lighting is available with both PAL (OE14-376) and NTSC (OE14-377) video outputs. The camera is housed in a ruggedised yet light weight and compact 3000 msw depth rated Aluminum Alloy housing.

The camera boasts a unique front port design which prevents light from the 10 integral LEDs reflecting back into the lens. This feature, in combination with auto shuttering and AGC functions, provides the user with truly impressive light compensation without the cost and inconvenience of an additional lamp.

The camera is ideally suited to close proximity inspection tasks such as gauge and process monitoring, ROV manipulator wrist applications and tooling applications.

The camera is optionally available with a right angle viewing adaptor which provides the user with a cost effective solution for inspection of confined entry areas such as narrow diameter pipe walls, tanks and cavities.

### Applications

- **Tooling**
- **ROV Manipulator Wrist Camera**
- **Pipe Wall Inspection**
- **Gauge and Process Monitoring**

# TECHNICAL SPECIFICATIONS

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## Performance

Horizontal Resolution	480 TVL/PH
Light Sensitivity	100 mV video at $20 \times 10^{-3}$ lux faceplate 350 mV video at $90 \times 10^{-3}$ lux faceplate
Minimum Scene Illumination	0.28 lux
Signal to Noise Ratio	>56 dB (weighted)

## Electrical

Scan Standard	625 lines 50Hz PAL (OE14-376) 525 lines 60Hz NTSC (OE14-377)
Sensor Elements	752 (H) x 582 (V) (OE14-376) 768 (H) x 492 (V) (OE14-377)
Video Output	1V pk –pk composite video, into $75\Omega$
Power Input	12 to 24 V dc, 220mA (350mA max), with LEDs turned on
Light Output	99 lux at 1 meter

## Optical

Lens	4.3 mm, F1.8
AOV in water	Horizontal: $36^\circ$ Vertical: $27.5^\circ$ Diagonal: $43.5^\circ$
Iris Control	CCD Electronic
Focus Range	300mm to Infinity, Fixed

## Mechanical

Dimensions	Diameter: 45mm Length: 96mm (excl. connector)
Weight	In air 0.37Kg, in water 0.21Kg
Housing Material	Anodised aluminum alloy HE30T6 to BS1474
Connector	Burton 5507-1508

## Environmental

Operating Depth	3,000 msw
Temperature	Operating: $-5$ to $40^\circ\text{C}$ , Storage: $-20$ to $60^\circ\text{C}$
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 Immunity and BS EN 61000-6-1: 2001 Emission

## Features

White Balance	Factory preset to 5,600K
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## Options

Deeper rated housing options are available  
Right angle viewing adaptor  
Other connector options available

*Specifications subject to change without any further notice*

oe14376\_Datasheet\_US / Rev.B



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