

Applications

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

OE14-376/377



Mini Light Ring Colour Camera

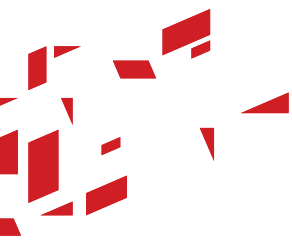
- Integral LED Lighting
- Compact Dimensions
- 3000msw Depth Rating

The OE14-376 (PAL) and OE14-377 (NTSC) standard definition, mini colour light ring cameras have been designed primarily for use in subsea environments and are ideally suited to close proximity inspection tasks such as gauge monitoring, ROV manipulator wrist applications and tooling operations.

The OE14-376/377 camera design incorporate a bespoke two-piece port assembly which prevents light from the 10 integral high output LEDs reflecting into the camera lens. The integral LED lighting can be configured for switched or permanently active operation. An optionally available right angled viewing adaptor makes this camera a cost effective solution for inspection of confined entry areas such as narrow diameter pipe walls, tanks and cavities.

The OE14-376/377 is fitted within an extremely compact and rugged 3000msw depth rated aluminium alloy housing. The camera provides a standard definition composite video signal output via the Burton 5507-1508 connector or customer specified external connector. The OE14-376/377 is supplied with a rugged shipping case.

For further information, email
camera.sales.uk@imenco.com



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OE14-370/371

Technical Specifications

Performance	
Horizontal Resolution	480 TVL/PH
Light Sensitivity	100mV video at 20 x 10 ⁻³ lux faceplate 350mV video at 90 x 10 ⁻³ lux faceplate
Minimum Scene Illumination	0.28 lux
Signal to Noise Ratio	>56dB (weighted)
Electrical	
Scan Standards	625 lines 50 Hz PAL (OE14-376) 525 lines 60 HZ 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 75Ω
Power Input	12 – 24 VDC, 220mA (350mA max with LEDs turned on)
Light Output	99 lux at 1 metre
White Balance	Factory pre-set to 5,600K
Optical	
Lens	4.3mm, F1.8
AOV in water	Horizontal: 36° Vertical: 27.5° Diagonal: 43.5°
Iris Control	CCD Electronic
Focus Range	300mm to infinity, fixed
Mechanical	
Dimensions	Diameter: 45mm (main body) Length: 96mm (excl. connector)
Weight	In air: 0.37 Kg In water: 0.21 Kg
Housing Material	Anodised aluminium alloy HE30T6 to BS1474
Connector	Burton 5507-1508 or customer specified
Environmental	
Operating Depth	3000 msw (other depth rated housing options 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 61000-6-3: 2001 Emission and BS EN 61000-6-1: 2001 Immunity

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