



IM14-390 & IM14-391

Applications

- IMR Tasks
- Drill Support
- Inspection and Survey
- General Observation Tasks



Wide Angle Colour Zoom Camera

- 10:1 Zoom Lens
- 84° Wide AOV
- 4500msw or 6000msw Depth Rating
- Direct replacement for OE14-370 & OE14-371

The IM14-390 (PAL) and IM14-391 (NTSC) standard definition, wide angle colour zoom cameras have been designed primarily for use in subsea environments and are ideally suited to inspection & survey applications, general observation, construction, and drill support tasks.

The IM14-390/391 standard definition, wide angle colour zoom camera has a unique optical arrangement providing an extremely wide (84° diagonal) angle of view. The video image is focused from as close as the front port to infinity (equipped with a 10:1 optical zoom lens), making the IM14-390/391 an excellent tool for both close up and stand-off inspections.

Packaged within a robust 4500msw (6000msw also available) depth rated titanium alloy housing, the IM14-390/391 provides a standard definition composite video signal output via the Burton 5506-1508 connector or customer specified external connector.

Camera functions can be operated via a single wire (tri-state) voltage system or by using Imenco's proprietary command protocol and GUI (Graphical User Interface) over an RS485 or RS232 serial link.

The IM14-390/391 is supplied with a handheld infra-red remote control and GUI both are included free of charge and have been intuitively designed for ease of use.

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Technical Specifications

Performance	
Horizontal Resolution	550 TVL/PH
Light Sensitivity	100mV video at 0.003 lux (max) faceplate
Minimum Scene Illumination	0.049 lux(nominal) for100Mv Video at 100% scene illumination
Nominal Signal to Noise Ratio	>48dB (weighted)
Electrical	
Scan Standards	625 lines 50 Hz PAL (IM14-390) 525 lines 60 HZ NTSC (IM14-391)
Sensor Elements	752 (H) x 582 (V) (IM14-390) 768 (H) x 494 (V) (IM14-391)
Video Output	1V pk-pk composite video into 75Ω
Power Input	16 – 24 VDC, 500mA (max)
Control	Single wire (tri-state), two wire (bi-polar), RS232, RS485
Optical	
Lens	3.3mm to 33mm, 10:1 optical zoom, F1.8 to F3.4
AOV in water	Horizontal: 70° (Wide) Vertical: 54° (Wide) Diagonal: 84° (Wide)
Iris Control	Automatic (manual control available through GUI)
Focus Range	Front port to infinity (at wide angle) 150mm to infinity (at narrow angle)
Mechanical	
Dimensions	4500 msw: Diameter main Body:88mm, (109.5MM front end hood) Length:179.1.1mm(excl.conn) 6000 msw: Diameter main Body:92.2mm, Length:221mm (excl conn)
Weight	4500msw in air: 2.45Kg, In water: 1.45 Kg 6000msw in air: 3.58 Kg, In water: 2.0 Kg
Housing Material	Titanium alloy 6AL/4V ASTM B3 48
Connector	Burton 5506-1508 or customer specified
Environmental	
Operating Depth	4500 msw (6000 msw also 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: 2007 Emission and BS EN 61000-6-1: 2007 Immunity