

Applications

- Inspection
- Tooling Skids
- Observation and Situational Awareness
- Vessel Hull Mount

OE14-212/213



Colour Pan & Tilt, Zoom Camera (PATZ)

- 10:1 Zoom Lens
- 205° Optical Viewing
- 4500msw Depth Rating
- Integrated LED Lighting

The OE14-212 (PAL) and OE14-213 (NTSC) zoom, rotate and tilt colour camera has been designed primarily for use in subsea environments and is ideally suited to inspection & survey tasks, general observation & situational awareness tasks, restricted access applications, internal pipe and flooded caisson inspection.

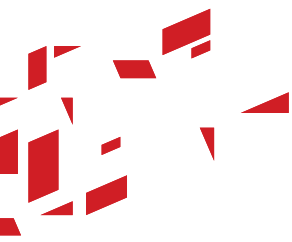
The OE14-212/3 (ZRAT) zoom, rotate and tilt colour zoom camera has a unique gimbal head design, providing continual rotation and coverage on the pan axis and 205° angular coverage on the tilt axis. With a 10:1 optical zoom lens the OE14-212/3 will focus from as close as 10mm from the front port to infinity, making it the perfect choice for both close up and stand-off inspections.

Packaged within a robust 4500msw depth rated marine grade titanium alloy housing, the OE14-212/3 (ZRAT) camera has been fully qualified to withstand extremes of temperature, shock, vibration and stringent EMC standards, making it suitable for use in the most extreme of marine environments.

Camera functions can be operated via a single wire (tri-state) voltage control system or by using Imenco's proprietary command protocol over an RS485 or RS232 serial link. Camera functions can also be operated using the Pelco-D protocol over an RS485 serial link.

The OE14-212/3 is supplied with a hand held infra-red remote control and GUI (Graphical User Interface) both are included free of charge and have been intuitively designed for ease of use. An optional flange mount housing assembly is also available for integration into research vessels and mega yacht hulls.

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



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Technical Specifications

Performance	
Horizontal Resolution	560 TVL/PH (OE15-100D) 570 TVL/PH (OE15-101D)
Light Sensitivity	350mV video at 300 x 10 ⁻⁶ lux faceplate
Minimum Scene Illumination	5 x 10 ⁻³ lux
Signal to Noise Ratio	>50dB (weighted)
Electrical	
Scan Standards	625 lines 50 Hz CCIR (OE15-100D) 525 lines 60 HZ EIA RS170A (OE15-101D)
Sensor Elements	752 (H) x 582 (V) (OE15-100D) 768 (H) x 492 (V) (OE15-101D)
Video Output	1V pk-pk composite video into 75Ω
Power Input	16 – 30 VDC, 220mA
Optical	
Lens	4mm to 12mm varifocal, F1.2
AOV in water	Horizontal: 77° Vertical: 59° Diagonal: 102°
Iris Control	Automatic
Focus Range	300mm to infinity, fixed
Water Compensation	Concentric Dome Port
Mechanical	
Dimensions	Diameter: 82mm (main body), 86mm (front end) Length: 211mm (excl. connector)
Weight	In air: 2.4 Kg In water: 1.3 Kg
Housing Material	Titanium alloy 6AL/4V ASTM B3 48
Connector	Burton 5506-1508 or customer specified
Environmental	
Operating Depth	4500 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: 2007 Emission and BS EN 61000-6-1: 2007 Immunity

