



Observation and Situational Awareness
Flooded Caisson Inspection
Internal Pipe Inspection
Tooling Skids



OE14-212/213

COLOUR ZOOM, ROTATE AND TILT CAMERA (ZRAT)

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.



BY IMENCO

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OE14-212/213

TECHNICAL SPECIFICATIONS

Horizontal Resolution	Danifarmana	
Light Sensitivity 10mPv / video at 1.5 x10³ lux faceplate 350mV video at 1.5 x10³ lux faceplate 350mV video at 1.5 lux faceplate 350mV video AV vid		460 TVI /DH (OE14 212)
Minimum Scene Illumination 0.16 lux (nominal)	Horizontal Resolution	470 TVL/PH (OE14-213)
Minimum Scene Illumination 0.16 lux (nominal) Signal to Noise Ratio >50dB (weighted) Flectrical Scan Standards 625 lines 50Hz PAL (OE14-213) Sensor Elements 752 (H) x 582 (V) (DE14-213) Video Output 1752 (H) x 582 (V) (DE14-213) Video Output 19 k - 9k composite video into 75Ω Power Input 16 - 30 VDC, 650mA (max) Inrush Current 1,24A at 16 VDC (10 mS) Control Single wire (tri-state), RS232, RS485 Lighting 10 gimbal mounted LEDs, illumination at 1m - 129 Lux Optical 4.2mm to 42mm, 10:1 optical zoom, F1.8 to F2.9 AOV in water Horizontal: 36° (Wide) Vertical: 26° (Wide) Vertical: 26° (Wide) Vertical: 26° (Wide) Diagonal: 43.7° (Wide) Iris Control Automatic (manual control available through GUI) Focus Range 10mm to infinity (at wide angle), 1200mm to infinity (at tele angle) Angular Coverage 11ti: 205° (±102.5°) Both figures include AOV at zoom wide position Pan & Tilt 20mm to infinity (at widest point), Length: 185mm (excl. connector) Weight In air: 5.9 Kg, In water: 4.2 Kg	Light Sensitivity	·
Signal to Noise Ratio >50dB (weighted) Electrical Scan Standards 625 lines 50Hz PAL (OE14-213) Sensor Elements 752 (H) x 582 (V) (OE14-213) Video Output 1V pk – pk composite video into 75Ω Power Input 16 – 30 VPC, 650mA (max) Inrush Current 1.24A at 16 VPC (10 mS) Control Single wire (tri-state), RS232, RS485 Lighting 10 gimbal mounted LEDs, illumination at 1m – 129 Lux Optical Lens 4.2mm to 42mm, 10:1 optical zoom, F1.8 to F2.9 AOV in water Horizontal: 36° (Wide) Vertical: 26° (Wide) Vertical: 26° (Wide) Diagonal: 43.7° (Wide) Uponation mount of infinity (at wide angle), 1200mm to infinity (at tele angle) Angular Coverage 10mm to infinity (at wide angle), 1200mm to infinity (at tele angle) Pan & Tilt Rotate: >360° (Tilt: 205° (±102.5°) Both figures include AOV at zoom wide position Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Usergith: 185mm (excl. connector) Weight In air: 5.9 Kg, In water: 4.2 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 <tr< td=""><td>350mV video at 0.3 lux faceplate</td></tr<>		350mV video at 0.3 lux faceplate
Electrical Scan Standards 625 lines 50Hz PAL (OE14-212) Sensor Elements 752 (H) x 582 (V) (OE14-212) 768 (H) x 494 (V) (OE14-213) Video Output 11 y k – yk composite video into 75Ω Power Input 16 – 30 VDC, 650mA (max) Inrush Current 1.24A at 16 VDC (10 mS) Control Single wire (tri-state), RS232, RS485 Lighting 10 gimbal mounted LEDs, illumination at 1m – 129 Lux Optical Lens 4.2mm to 42mm, 10:1 optical zoom, F1.8 to F2.9 AOV in water Horizontal: 36° (Wide) Vertical: 26° (Wide) Vertical: 26° (Wide) Diagonal: 43.7° (Wide) Ull Iris Control Automatic (manual control available through GUI) Focus Range 10 mm to infinity (at wide angle), 1200mm to infinity (at tele angle) Angular Coverage Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 148mm (At widest point), Length: 185mm (excl. connector) Weight In air: 5.9 kg, In water: 4.2 kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector 8 Pin Burton 5506-1508, side or rear	Minimum Scene Illumination	0.16 lux (nominal)
Scan Standards 625 lines 50Hz PAL (OE14-212) 525 lines 50Hz NTSC (OE14-213) Sensor Elements 752 (H) x 582 (V) (OE14-213) Video Output 1V pk – pk composite video into 75Ω Power Input 16 – 30 VDC, 650mA (max) Inrush Current 1,24A at 16 VDC (10 mS) Control Single wire (tri-state), R5232, R5485 Lighting 10 gimbal mounted LEDs, illumination at 1m – 129 Lux Optical Lens 4,2mm to 42mm, 10:1 optical zoom, F1.8 to F2.9 AOV in water Horizontal: 36° (Wide) Diagonal: 43.7° (Wide) Poiagonal: 43.7° (Wide) Iris Control Automatic (manual control available through GUI) Focus Range 10mm to infinity (at wide angle), 1200mm to infinity (at tele angle) Angular Coverage Pan & Tilt Rotate: >360° Tilt: 205° (±102.5°) Both figures include AOV at zoom wide position Ban & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 148mm (At widest point), Length: 185mm (excl. connector) Weight In air: 5,9 Kg, In water: 4,2 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector B Pin Burton 5506-1508, side or rear entry (other connector options available) Temperature Operating Depth 4500 msw (other depth rated housing options are available) Temperature Operating Depth 4500 msw (other depth rated housing options are available) Temperature Operating Depth 100, from 20 to 150HZ on all three axes		>50dB (weighted)
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Diagonal: 43.7° (Wide) Iris Control	AOV in water	
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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	Vibration	·
	Electromagnetic Compatibility	BS EN 61000-6-3: 2007 Emission and BS EN 61000-6-1: 2007 Immunity

