

#### Applications:

Inspection

**Tooling Skids** 

Observation and Situational Awareness

Vessel Hull Mount



## OE14-222/223

### COLOUR PAN & TILT, ZOOM CAMERA (PATZ)

10:1 Zoom Lens

205° Optical Viewing

4500msw Depth Rating

Integrated LED Lighting

The OE14-222 (PAL) and OE14-223 (NTSC) pan & tilt, zoom colour camera has been designed primarily for use in subsea environments and is ideally suited to inspection & survey tasks, general observation & situational awareness tasks, (HOV) manned submersible deployment and vessel hull mount (research vessel and mega yacht) applications.

The OE14-222/3 (PATZ) pan & tilt, colour zoom camera has a unique gimbal head design, providing 176° angular coverage on the pan axis and 205° angular coverage on the tilt axis. With a 10:1 optical zoom lens the OE14-222/3 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 OE14-222/3 (PATZ) 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 OE14-22/3 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.



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## OE14-222/223

### **TECHNICAL SPECIFICATIONS**

| Horizontal Resolution  |                               | TECHNICAE SI ECH ICATIONS  |
|--|-------------------------------|--|
| Light Sensitivity   10mPt video at 40 x10 3 lux faceplate   350mV video at 40 x10 x10 x10 x10 x10 x10 x10 x10 x10 x1   | Performance                   | 450 771 (711 (751 4 200)   |
| 350mV video at 0.3 lux faceplate   | Horizontal Resolution         |  |
| Minimum Scene Illumination   | Light Sensitivity             | 100mV video at 40 x10 <sup>-3</sup> lux faceplate                              |
| Signal to Noise Ratio   SodB (weighted)  |                               | 350mV video at 0.3 lux faceplate   |
| Electrical         Scan Standards       625 lines 50Hz PAL (OE14-222)         Schines 60Hz NTSC (OE14-222)         Sensor Elements       752 (H) x 582 (V) (OE14-222)         Video Output       1V pk – pk composite video into 75Ω         Power Input       16 – 30 VDC, 650mA (max)         Inrush Current       1.2A at 16 VDC         Control       Single wire (tri-state), RS232, RS485         Lighting       10 gimbal mounted LEDs, illumination at 1m – 130 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: 41.5° (Wide)       Joing on the infinity (at wide angle), 1000mm to infinity (at tele angle)         Angular Coverage       Pan: 176° (±88°), Tilt: 205° (±102.5°) Both figures include AOV at zoom wide position         Pan & Tilt         Pan: 176° (±88°), Tilt: 205° (±102.5°) Both figures include AOV at zoom wide position         Meethanical         Diameter: 148mm (At widest point), Length: 178mm (excl. connector)         Weight       In air: 5.5 Kg, In water: 3.2 Kg         Housing Material       Titanium alloy 6AL/4V ASTM B3 48         Connector       8 Pin Burton 5506-1508, side or rear entry (other connector options ava  | Minimum Scene Illumination    | 0.7 lux (nominal)  |
| Sensor Elements 752 (Inl.) x 582 (V) (DE14-222) 752 (Inl.) x 582 (V) (DE14-223)  Video Output 1V pk – pk composite video into 75Ω  Power Input 16 – 30 VDC, 650mA (max)  Inrush Current 1.2A at 16 VDC  Control Single wire (tri-state), RS232, RS485  Lighting 10 gimbal mounted LEDs, illumination at 1m – 130 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) Diagonal: 41.5° (Wide) Vertical: 26° (Wide) Diagonal: 41.5° (Wide)  Iris Control Automatic (manual control available through GUI)  Focus Range 10 mm to infinity (at wide angle), 1000mm to infinity (at tele angle)  Angular Coverage  Pan & Tilt Pan: 176° (±88°), Tilt: 200° e1102.5°) Both figures include AOV at zoom wide position  Pan & Tilt, Zoom and Focus Control Uir optional joystick terminal  Mechanical  Diameter: 148mm (At widest point), Length: 178mm (excl. connector)  Weight In air: 5.5 Kg, In water: 3.2 Kg  Housing Material Titanium sulloy 6AL/4V ASTM B3 48  Connector 8 Pin Burton 5506-1508, side or rear entry (other connector options available)  Environmental  Operating Depth 4500 msw (other depth rated housing options are available)  Temperature Operating: 5 to 40°C, Storage: -20 to 60°C  Shock 30G peak acceleration, 25m shalf sine duration, on all three axes  |                               | >50dB (weighted)   |
| Sensor Elements 752 (H) x S82 (V) (OE14-222) 768 (H) x 494 (V) (OE14-222) 768 (H) x 494 (V) (OE14-223)  Video Output 14 y k - pk composite video into 75Ω Power Input 16 - 30 VDC, 650mA (max) Inrush Current 1.2A at 16 VDC Control Single wire (tri-state), RS232, RS485 Lighting 10 gimbal mounted LEDs, illumination at 1m - 130 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) Diagonal: 41.5° (Wide) Iris Control Automatic (manual control available through GUI) Focus Range 10 mm to infinity (at wide angle), 1000mm to infinity (at tele angle) Angular Coverage Pan & Tilt Pan: 176° (±88°), Tilt: 205° (e102.5°) Both figures include AOV at zoom wide position  Bean & Tilt, Zoom and Focus Control Mechanical  Diameter: 148mm (At widest point), Length: 178mm (excl. connector) Weight In air: 5.5 Kg, In water: 3.2 Kg Connector 8 Pin Burton 5506-1508, side or rear entry (other connector options available)  Environmental 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: -5 to 40°C, Storage: -20 to 60°C Shock 30G peak acceleration, 25ms half sine duration, on all three axes  | Electrical                    |  |
| Sensor Elements       752 (H) x 582 (V) (OE14-222)         768 (H) x 494 (V) (OE14-223)         Video Output       1V pk - pk composite video into 75Ω         Power Input       16 – 30 VDC, 650mA (max)         Inrush Current       1.2A at 16 VDC         Control       Single wire (tri-state), RS232, RS485         Lighting       10 gimbal mounted LEDs, illumination at 1m – 130 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)         Vertical: 26° (Wide)       Vertical: 26° (Wide)         Iris Control       Automatic (manual control available through GUI)         Focus Range       10mm to infinity (at wide angle), 1000mm to infinity (at tele angle)         Angular Coverage         Pan & Tilt       Pan: 176° (±88°), Tilt: 205° (±102.5°) Both figures include AOV at zoom wide position         Pan & Tilt, Zoom and Focus Control       GUI or optional joystick terminal         Mechanical         Diameter: 148mm (At widest point), Length: 178mm (excl. connector)         Weight       In air: 5.5 Kg, In water: 3.2 Kg         Housing Material       Titanium alloy 6AL/4V ASTM B3 48         Connector       8 Pin Burton 5506-1508, side or rear entry (other c  | Scan Standards                |  |
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| Video Output       1V pk – pk composite video into 75Ω         Power Input       16 – 30 VDC, 650mA (max)         Inrush Current       1.2A at 16 VDC         Control       Single wire (tri-state), RS232, RS485         Lighting       10 gimbal mounted LEDs, illumination at 1m – 130 Lux         Optical         Lens       4.2mm to 42mm, 10:1 optical zoom, F1.8 to F2.9         AOV in water       Horizontal: 36° (Wide)<br>Vertical: 26° (Wide)<br>Vertical: 26° (Wide)         Diagonal: 41.5° (Wide)         Iris Control       Automatic (manual control available through GUI)         Focus Range       10mm to infinity (at wide angle), 1000mm to infinity (at tele angle)         Angular Coverage       10mm to infinity (at wide angle), 1000mm to infinity (at tele angle)         Pan & Tilt       Pan: 176° (±88°),<br>Tilt: 205° (±102.5°) Both figures include AOV at zoom wide position         Pan & Tilt, Zoom and Focus Control       GUI or optional joystick terminal         Mechanical       Usength: 178mm (excl. connector)         Weight       In air: 5.5 Kg, In water: 3.2 Kg         Housing Material       Titanium alloy 6AL/4V ASTM B3 48         Connector       8 Pin Burton 5506-1508, side or rear entry (other connector options available)         Environmental         Operating: 5 to 40°C, Storage: -20 to 60°C         Shock   | Sensor Elements               |  |
| Power Input 16 – 30 VDC, 650mA (max) Inrush Current 1.2A at 16 VDC Control Single wire (tri-state), RS232, RS485 Lighting 10 gimbal mounted LEDs, illumination at 1m – 130 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) Diagonal: 41.5° (Wide) Iris Control Automatic (manual control available through GUI) Focus Range 10mm to infinity (at wide angle), 1000mm to infinity (at tele angle) Angular Coverage Pan & Tilt Pan: 176° (±88°), Tilt: 205° (±102.5°) Both figures include AOV at zoom wide position Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 148mm (At widest point), Length: 178mm (excl. connector) Weight In air: 5.5 Kg, In water: 3.2 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector 8 Pin Burton 5506-1508, side or rear entry (other connector options available) Environmental Operating Depth 4500 msw (other depth rated housing options are available) Temperature Operating: 5 to 40°C, Storage: -20 to 60°C Shock 30G peak acceleration, 25ms half sine duration, on all three axes   |                               |  |
| Inrush Current  1.2A at 16 VDC  Control  Single wire (tri-state), RS232, RS485  Lighting  10 gimbal mounted LEDs, illumination at 1m – 130 Lux  Optical  Lens  4.2mm to 42mm, 10:1 optical zoom, F1.8 to F2.9  AOV in water  Horizontal: 36° (Wide) Vertical: 26° (Wi | Video Output                  | 1V pk – pk composite video into $75Ω$  |
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| Optical         Lens       4.2mm to 42mm, 10:1 optical zoom, F1.8 to F2.9         AOV in water       Horizontal: 36° (Wide)  | Control                       | Single wire (tri-state), RS232, RS485  |
| AOV in water  4.2mm to 42mm, 10:1 optical zoom, F1.8 to F2.9  Horizontal: 36° (Wide) Vertical: 26° (Wide) Diagonal: 41.5° (Wide)  Iris Control  Automatic (manual control available through GUI)  Focus Range  10mm to infinity (at wide angle), 1000mm to infinity (at tele angle)  Angular Coverage  Pan & Tilt  Pan: 176° (±88°), Tilt: 205° (±102.5°) Both figures include AOV at zoom wide position  Pan & Tilt, Zoom and Focus Control  GUI or optional joystick terminal  Mechanical  Dimensions  Diameter: 148mm (At widest point), Length: 178mm (excl. connector)  Weight  In air: 5.5 Kg, In water: 3.2 Kg  Housing Material  Titanium alloy 6AL/4V ASTM B3 48  Connector  8 Pin Burton 5506-1508, side or rear entry (other connector options available)  Environmental  Operating Depth  4500 msw (other depth rated housing options are 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   | Lighting                      | 10 gimbal mounted LEDs, illumination at 1m – 130 Lux                           |
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| Angular Coverage  Pan & Tilt   | Iris Control                  | Automatic (manual control available through GUI)                               |
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| Tilt: 205° (±102.5°) Both figures include AOV at zoom wide position  Pan & Tilt, Zoom and Focus Control  GUI or optional joystick terminal  Mechanical  Diameter: 148mm (At widest point),   |                               |  |
| Pan & Tilt, Zoom and Focus Control  Mechanical  Diameter: 148mm (At widest point),     Length: 178mm (excl. connector)  Weight  In air: 5.5 Kg, In water: 3.2 Kg  Housing Material  Titanium alloy 6AL/4V ASTM B3 48  Connector  8 Pin Burton 5506-1508, side or rear entry (other connector options available)  Environmental  Operating Depth  4500 msw (other depth rated housing options are 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  GUI or optional joystick terminal  At widest point),     Length: 178mm (excl. connector)  In air: 5.5 Kg, In water: 3.2 Kg  Weight  At som all three axes  10G, from 20 to 150HZ on all three axes   | Pan & Tilt                    |  |
| MechanicalDimensionsDiameter: 148mm (At widest point),<br>Length: 178mm (excl. connector)WeightIn air: 5.5 Kg, In water: 3.2 KgHousing MaterialTitanium alloy 6AL/4V ASTM B3 48Connector8 Pin Burton 5506-1508, side or rear entry (other connector options available)EnvironmentalOperating Depth4500 msw (other depth rated housing options are available)TemperatureOperating: -5 to 40°C, Storage: -20 to 60°CShock30G peak acceleration, 25ms half sine duration, on all three axesVibration10G, from 20 to 150HZ on all three axes   |                               | -  |
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| 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  | Environmental                 |  |
| Shock 30G peak acceleration, 25ms half sine duration, on all three axes  Vibration 10G, from 20 to 150HZ on all three axes   | Operating Depth               | 4500 msw (other depth rated housing options are available)                     |
| Vibration 10G, from 20 to 150HZ on all three axes  | Temperature                   | Operating: -5 to 40°C, Storage: -20 to 60°C                                    |
| ·  | Shock                         | 30G peak acceleration, 25ms half sine duration, on all three axes              |
| Electromagnetic Compatibility BS EN 61000-6-3: 2007 Emission and BS EN 61000-6-1: 2007 Immunity  | 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              |

