

Applications:

Vessel Hull Mount

Marine Science

Manned Submersibles

HD Inspection and Survey

Observation and Situational Awareness



OE14-522

HIGH DEFINITION PAN & TILT, ZOOM CAMERA

10:1 Zoom Lens

230° Optical Viewing

1080i / 720p / NTSC / PAL

The OE14-522 high definition, pan & tilt zoom camera has been designed primarily for use in subsea environments and is ideally suited to HD inspection & survey tasks, general observation & situational awareness tasks, marine science, (HOV) manned submersible deployment and vessel hull mount (research vessel and mega yacht) applications.

The OE14-522 high definition, pan & tilt zoom camera has a unique gimbal head design, providing 230° angular coverage on the pan axis and 224° angular coverage on the tilt axis. The custom engineered optical arrangement ensures the high definition video image remains in focus through the complete range of movement on both axes. With a 10:1 optical zoom lens the OE14-522 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 titanium alloy housing the OE14-522 provides a high definition video output signal which is available in a

range of customer specified transmission modes including HD component, HD-SDI over coax and HD-SDI over fibre. The OE14-522 can also be customized with a variety of external connectors.

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 OE14-522 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.



imenco.com



OE14-522

TECHNICAL SPECIFICATIONS

Horizontal Resolution 800 TVL/PH Light Sensitivity 100mV video at 15 x10³ lux faceplate, 350mV video at 1.1 lux faceplate Minimum Scene Illumination 2 lux Signal to Noise Ratio 54dB (weighted) Flectrical Scan Standards 1080 i 7 20p, 50 fps 1080 i 7 20p, 50 fps 1080 i 7 20p, 59.94 fps PAL / NTSC VBS Composite video Sensor Elements 1920 (H) x 1080 (V) Video Output HD-SDI over Coax, HD-SDI over fibre (SM, MM, CWDM), HD Component (Y, Pb, Pr), PAL and NTSC composite video Power Input 16 - 24 VDC, 1A (max) Control Single wire (tri-state), RS232, RS485 Optical Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal 40.5° (Wide) Vertical: 23.9° (Wide) Diagonal: 45.1° (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: 11, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 kg, In water: 4.4 kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant Environmental Operating: -5 to 40°C, Storage: -20 to 60°C Shock 300 peak acceleration, 25ms half sine duration, on all three axes Electromagnetic Compatibility B5 the 1000-6-1: 2007 Immunity	Performance	
Minimum Scene Illumination 2 Lux Signal to Noise Ratio 5	Horizontal Resolution	800 TVL/PH
Signal to Noise Ratio Electrical Scan Standards 10801 / 720p, 50 fps 10801 / 720p, 59.94 fps PAL / NTSC VBS Composite video Sensor Elements 1920 (H) x 1080 (V) Video Output HD-SDI over Coax, HD-SDI over fibre (SM, MM, CWDM), HD Component (Y, Pb, Pr), PAL and NTSC composite video Power Input 16 - 24 VDC, 1A (max) Control Single wire (tri-state), RS232, RS485 Optical Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal: 40.5° (Wide) Vertical: 23.9° (Wide) Diagonal: 45.1° (Wide) Iris Control Automatic (manual control available through GUI) Focus Range 10mm to infinity (at wide angle) 100mm to infinity (at tele angle) 4 Angular Coverage Pan & Tilt Pan: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant Environmental Operating Depth 4500 msw (other depth rated housing options are available) Temperature Operating: 5 to 40°C, Storage: -20 to 60°C Shock 306 peak acceleration, 25ms half sine duration, on all three axes	Light Sensitivity	100mV video at 15 x10 ⁻³ lux faceplate, 350mV video at 1.1 lux faceplate
Scan Standards	Minimum Scene Illumination	2 lux
Scan Standards 1080 i / 720p, 59,94 fps	Signal to Noise Ratio	>54dB (weighted)
Sensor Elements 1920 (H) x 1080 (V) Video Output HD-SDI over Coax, HD-SDI over fibre (SM, MM, CWDM), HD Component (Y, Pb, Pr), PAL and NTSC composite video Power Input 16 – 24 VDC, 1A (max) Control Single wire (tri-state), RS232, RS485 Optical Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal: 40.5° (Wide) Vertical: 23.9° (Wide) Diagonal: 45.1° (Wide) Iris Control Automatic (manual control available through GUI) Focus Range 10mm to infinity (at wide angle) 100mm to infinity (at tele angle) Angular Coverage Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Connector Configuration dependant Environmental Operating Depth 4500 msw (other depth rated housing options are available) Temperature Operating: 5 to 40°C, Storage: -20 to 60°C Shock 306 peak acceleration, 25mk half sine duration, on all three axes	Electrical	
PAL / NTSC VBS Composite video Sensor Elements 1920 (H) x 1080 (V) Video Output HD-SDI over Coax, HD-SDI over fibre (SM, MM, CWDM), HD Component (Y, Pb, Pr), PAL and NTSC composite video Power Input 16 – 24 VDC, 1A (max) Control Single wire (tri-state), RS232, RS485 Optical Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal: 40.5° (Wide)	Scan Standards	1080i / 720p, 50 fps
Sensor Elements 1920 (H) x 1080 (V) Video Output HD-SDI over Coax, HD-SDI over fibre (SM, MM, CWDM), HD Component (Y, Pb, Pr), PAL and NTSC composite video Power Input 16 - 24 VDC, 1A (max) Control Single wire (tri-state), RS232, RS485 Optical Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal: 40.5° (Wide) Vertical: 23.9° (Wide) Diagonal: 45.1° (Wide) Iris Control Automatic (manual control available through GUI) Focus Range 10mm to infinity (at wide angle) 100mm to infinity (at tele angle) Angular Coverage Pan & Tilt Pan: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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		1080i / 720p, 59.94 fps
Video Output HD-SDI over Coax, HD-SDI over fibre (SM, MM, CWDM), HD Component (Y, Pb, Pr), PAL and NTSC composite video Power Input 16 – 24 VDC, 1A (max) Control Single wire (tri-state), RS232, RS485 Optical Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal: 40.5° (Wide) Vertical: 23.9° (Wide) Diagonal: 45.1° (Wide) Diagonal: 45.1° (Wide) Iris Control Automatic (manual control available through GUI) Focus Range 10mm to infinity (at wide angle) 100mm to infinity (at tele angle) Angular Coverage Pan & Tilt Pan: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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		PAL / NTSC VBS Composite video
PAL and NTSC composite video Power Input 16 – 24 VDC, 1A (max) Control Single wire (tri-state), RS232, RS485 Optical Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal: 40.5° (Wide) Vertical: 23.9° (Wide) Diagonal: 45.1° (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: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Connector Configuration dependant 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	Sensor Elements	1920 (H) x 1080 (V)
Power Input 16 - 24 VDC, 1A (max) Control Single wire (tri-state), RS232, RS485 Optical Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal: 40.5° (Wide) Vertical: 23.9° (Wide) Diagonal: 45.1° (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: ±115°, Tilt: ±112° (with lens at wide angle setting) GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/AV ASTM B3 48 Connector Configuration dependant 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	Video Output	HD-SDI over Coax, HD-SDI over fibre (SM, MM, CWDM), HD Component (Y, Pb, Pr),
Control Single wire (tri-state), RS232, RS485 Optical Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal: 40.5° (Wide) Vertical: 23.9° (Wide) Diagonal: 45.1° (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: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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		PAL and NTSC composite video
Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal: 40.5° (Wide)	Power Input	16 – 24 VDC, 1A (max)
Lens 5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1 AOV in water Horizontal: 40.5° (Wide) Vertical: 23.9° (Wide) Diagonal: 45.1° (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: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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		Single wire (tri-state), RS232, RS485
AOV in water Horizontal: 40.5° (Wide) Vertical: 23.9° (Wide) Diagonal: 45.1° (Wide) Iris Control Automatic (manual control available through GUI) Focus Range 100mm to infinity (at wide angle) 100mm to infinity (at tele angle) Angular Coverage Pan & Tilt Pan: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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	Optical	
Vertical: 23.9° (Wide) Diagonal: 45.1° (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: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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	Lens	5.1mm to 51mm, 10:1 optical zoom, F1.8 to F2.1
Diagonal: 45.1° (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: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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	AOV in water	Horizontal: 40.5° (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: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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		Vertical: 23.9° (Wide)
Focus Range 10mm to infinity (at wide angle) 1000mm to infinity (at tele angle) Angular Coverage Pan & Tilt Pan: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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		Diagonal: 45.1° (Wide)
Angular Coverage Pan & Tilt Pan: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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	Iris Control	Automatic (manual control available through GUI)
Angular Coverage Pan & Tilt Pan: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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	Focus Range	10mm to infinity (at wide angle)
Pan & Tilt Pan: ±115°, Tilt: ±112° (with lens at wide angle setting) Pan & Tilt, Zoom and Focus Control GUI or optional joystick terminal Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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		1000mm to infinity (at tele angle)
Pan & Tilt, Zoom and Focus Control Mechanical Dimensions Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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 Diameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector) In air: 6.4 Kg, In water: 4.4 Kg Weight Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant		Pan: +115° Tilt: +112° (with lans at wide angle setting)
MechanicalDimensionsDiameter: 140mm (Main Body), 170mm (Dome) Length: 226.5mm (excl. connector)WeightIn air: 6.4 Kg, In water: 4.4 KgHousing MaterialTitanium alloy 6AL/4V ASTM B3 48ConnectorConfiguration dependantEnvironmental4500 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		
Length: 226.5mm (excl. connector) Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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		
Weight In air: 6.4 Kg, In water: 4.4 Kg Housing Material Titanium alloy 6AL/4V ASTM B3 48 Connector Configuration dependant 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	Dimensions	Diameter: 140mm (Main Body), 170mm (Dome)
Housing Material Connector Configuration dependant 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		Length: 226.5mm (excl. connector)
Connector Configuration dependant 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	Weight	In air: 6.4 Kg, In water: 4.4 Kg
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	Housing Material	Titanium alloy 6AL/4V ASTM B3 48
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	Connector	Configuration dependant
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	
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	Operating Depth	4500 msw (other depth rated housing options are available)
Shock 30G peak acceleration, 25ms half sine duration, on all three axes Vibration 10G, from 20 to 150HZ on all three axes	Temperature	Operating: -5 to 40°C, Storage: -20 to 60°C
Vibration 10G, from 20 to 150HZ on all three axes	·	
	Vibration	10G, from 20 to 150HZ on all three axes
	Electromagnetic Compatibility	

