



## P-Sea Modular Underwater Computer System

### Features

- 200m/656ft Depth Rating
- Two external ports available for RS232 or RS485 serial communications
- 4 ports for USB 2.0 Hi-Speed devices
- Keyboard and joystick module
- CPU and display module
- Sonar/Camera/Modem mounting
- Alpha/numeric text keypad
- Optional swim handles
- Optional wrist mounted keypad
- Optional head up display

### Applications

- Numerous civil, military and sport diving roles
- Mission planning control and data logging
- Survey and condition monitoring tasks
- Vehicle and subsea system control



The all new P-Sea subsea computer from Tritech International offers unrivalled versatility for a vast number of diving applications. The innovative and compact P-Sea provides a simple platform for customer third party sensors and software. P-Sea may also be integrated with the full range of Tritech Micron and SeaKing sonars.

Depth rated to 200m and with 4 USB ports and 2 serial ports, options include separate control handles, alpha-numeric text keypad, head up display and a wristmounted keypad.

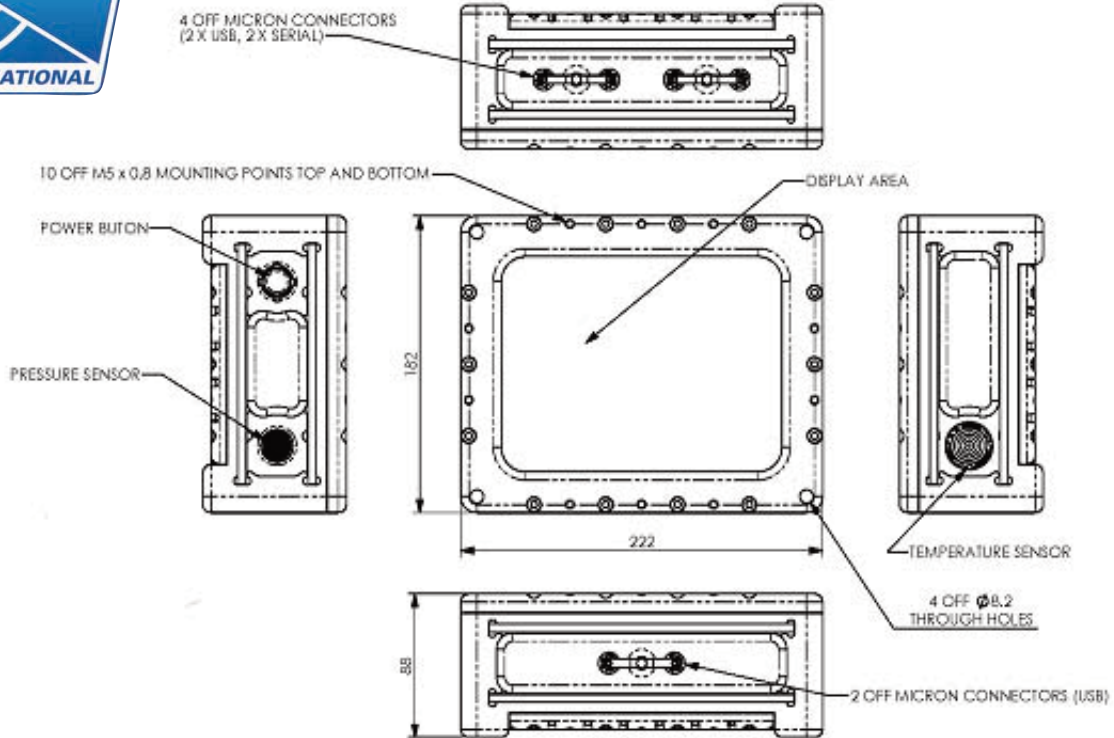
As with desktop PCs the flexible nature of P-Sea provides divers with a platform for underwater data collection, display and mission management. The CPU and display module are mounted on an assembly, which can also be fitted with the keyboard and joystick modules. A front mounting facility allows products such as sonars, modems, altimeters or a camera to be attached.

The P-Sea keyboard and joystick module feature a sixteen key interface for text and numerical input, with a predictive text facility for rapid data entry. A joystick is provided for cursor control. For surface use, the keyboard module can be replaced by a standard QWERTY keyboard and a mouse, connected to the USB ports.

P-Sea is also fitted with an external pressure sensor that displays continuous depth and pressure readings, as well as an external temperature sensor that shows the case temperature between the operating extremes of -10°C and 40°C. Internal temperature monitoring is standard allowing power reduction measures to be taken if required.



*P-Sea, smaller than a standard desktop laptop*



## Specifications

### P-Sea Module (Electrical Details)

Operating Voltage Range	12-36V DC
Power	Supply at least 60W required.
Processor	Intel Celeron 1GHz
RAM	512MB
Data Storage	IDE Hard-Disk, capacity 20GB
Display	6.3" LCD (262k colours) with 1024x768 resolution and adjustable backlight.
Operating System	Microsoft Windows XP Embedded
External Sensor Software	Tritech SeaNet Pro
<b>Serial Interfaces</b>	
Number of ports	2 external serial ports are available
Serial Connector	6 way, Impulse type IE55-1206-BCR
<b>USB Interface</b>	
Number of ports	4 external ports are available
USB Protocol	Full USB 2.0 compliance and USB 1.1 backward compliance
USB Connector	4 way, Impulse type IE55-1204-BCR
<b>Power Interface</b>	
Number of ports	1
Connector	2 way, Impulse type IE55-1002-BCR

### P-Sea Module (Mechanical Details)

Module Material	Acetal
Heat-sink Material	Anodised Aluminium
Display Window	Polycarbonate
Dimensions	222mm x 182mm x 96mm (WxHxD)
Weight In air	4kgs/9lbs (without any external devices)
Weight In water	1.3kgs/2.9lbs (without any external devices)
Operational Depth	200m, 656ft, 110 fathoms
Temperature, Operating	-10°C to +40°C
Temperature, Storage	-20 °C to +60 °C

### Tank-Mounted Battery Pack

Output	12V at 9000mA/h
Battery Type	NiMH
Charger	MP2500 Fast Charger (Part no 07536)
Charge Time	4.5 hours (minimum)
Connection Port	Battery module connects to the dedicated power port. P-Sea Connector type Impulse IE55W-1002-CCP.
Weight in air	2.3kg
Weight in Water	1.6kg
Hyperbaric Pressure Rating	25bar

*Please note all these figures are preliminary data*

All specifications are subject to change in line with Tritech's policy of continual product development.

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