

SeaPC

Underwater Computing At Your Fingertips



Features

- Accurate 3D navigation in the underwater environment
- Navigation updates using a discrete GPS, via floating buoy or submersible receiver
- Automatic logging of the diver's parameters and swim path including heading, depth and time
- On demand recording of the type, time, status, position and depth of objects on the seabed
- Accessing reference material from a user configurable database including pictures
- Automatically charting and surveying the bottom conditions of the search area
- Covert search and navigation
- Mission planning, execution and post analysis software
- Optional Mission Specific Modules (MSM)

The SeaPC is the State-Of-The Art undersea computing solution for Naval and Para-Military diving forces around the Globe.

A ruggedised personal computer housed in a pressure tight casing is packed with the widest range of features necessary for accurate and timely diving operations. The SeaPC is a force multiplier in both individual and multi person diving operations through the use of high speed undersea data communications complemented with straight forward data transfer (via USB) on the surface.

A flat panel, light adjustable computer display provides the diver with a plethora of information to successfully complete the most complex diving tasks in the shortest possible time. The SeaPC controls are a straightforward, menu based system and accessed and controlled via a 5-button Kord® Grip, thereby allowing the diver to focus attention on the task at hand.

The SeaPC represents the most advanced solution for undersea reconnaissance by divers. The advantages of automated data collection, acoustic navigation and undersea data transfer are applicable to undersea surveying and mapping, photography, area searches and inspections, surveillance and feature detection... just to name a few.

Not Just Military ...

The SeaPC is equally at home in the non-military environment and will provide significant benefits to the commercial and research fields. The removal of pure military functionality in no way degrades the primary performance requirements of the SeaPC and is likely to be a more cost-effective solution in both acquisition and task completion.

A recent trial using the SeaPC to survey a reef chain reduced the total task time from 15 to 2 days with vastly improved accuracy in records. The information collected from this survey was available on the intranet within hours of completing the task.



SeaPC FEATURES:

- Electronic Compass Module - Provides compass heading, pitch and roll readings Accuracy: level 1.0° RMS, Depth Sensor - 0-50 m depth.
- Health Status Indicators including battery level and sensor status
- Surface floating buoy providing GPS positioning – can provide differential and corrected position.
- KORD® Grip - The Kord® technologies are licensed to WetPC Pty Ltd by the Australian Institute of Marine Sciences (AIMS)
- Waterproof Keyboard
- SeaPC battery charger
- Rugged shipping case

PHYSICAL CHARACTERISTICS

- Weight (in air) ~14—24 kg - including batteries, depending on options exercised
- Dimensions (mm) 300H x 483W x 600L
- Neutrally buoyant in seawater
- Depth rating 45 msw
- Dimensions 300H x 483W x 600L mm

SYSTEMS SPECIFICATIONS**Onboard Computer**

- Computer - 1.1GHz G3 Processor with 512 MB RAM, 10 GB solid state HDD
- Display - 6.3" LCD TFT back-lit 1024x768 @ 16 million colours, plus adjustable light.
- Red Light Background with dimming for low-visibility operations

Power

- External rechargeable battery pack or 10 to 32 VDC source (provides 4 hours operation)
- Battery charger included with multi voltage input

External Signal and Data Interfaces:

- Ocean Depth Rated miniature electrical connectors providing dry mate connection for external power, 2 USB ports (network and keyboard)

MISSION SPECIFIC MODULES:

- Acoustic through water communications module with optional surface deck box
- Submersible GPS Module
- Display of vector chart information for enhanced underwater navigation and surveying (ENC and DNC)
- Acoustic navigation via use of redeployable Seabed Beacons for position updates without need for surface GPS
- Integration with Mine Warfare Tactical Command and other Mission Software—MINTACS
- Bolt on sensors integration including Doppler Velocity Log (DVL) , Temperature, Depth probe for bottom mapping and Diver Sonar
- Data Base access to allow for identification during data logging
- Low magnetic signature, shock and vibration specific configurations
- Larger non Solid State Hard Disk Drive
- Bluetooth and WiFi connection
- Extended Battery providing 6 hours operation
- USB Camera - Provides video and still image capture, video capture format: AVI, still image capture format: BMP, TIFF, JPEG

