blueprint subsea

# GPS Navigator

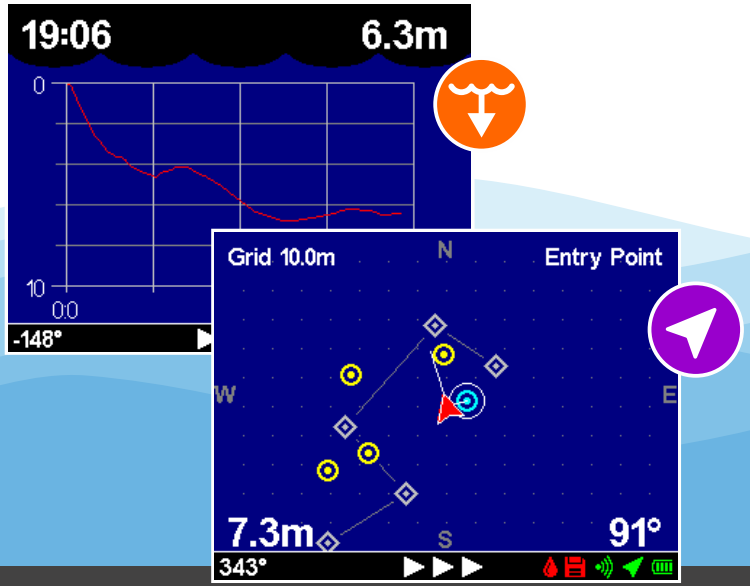
**The GPS Navigator is a handheld underwater computer designed to assist Search & Rescue, commercial and research divers navigate between pre-determined underwater waypoints and give them access to a GPS based position fix.**

Navigation and positioning information is received via a small float containing the GPS antenna, and relayed to the Navigator display through a thin tether cable.

Prior to diving, software running on a Windows PC is used to create Mission files containing waypoints and markers that can assist the diver to navigate a search-pattern or efficiently swim between locations.

An immersion sensor automatically controls logging of the dive data to the Navigator's internal storage memory, while the diver's position, heading, depth and course history are shown on the Navigator's display. Additional information for the currently selected mission marker is shown along with course-to-swim and distance to the marker.

The diver can add additional points of interest during the dive and these, along with the course and depth history, can be reviewed post-dive.




The Navigator has a simple and intuitive user interface allowing the Diver to quickly interpret information presented via the 3.5" colour display, simple menu interface and five button keypad.

Powered using a compact rechargeable Nickel-Metal Hydride battery pack, the Navigator will operate for over 10 hours from a single charge, while battery packs can be easily swapped on the surface between dives in a matter of minutes.

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navigator

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# navigator

## Specifications

Part Number BP00892

### Mechanical

| | |
|---|---|
| **Length** | 314mm (12.4") |
| **Width** | 240mm (9.5") |
| **Height** | 131mm (5.2") |
| **Weight** | ~3.0kg in air<br>~0.9kg in water |
| **Construction** | Black Polyurethane, ABS and hard anodised aluminium |
| **Operating Temp.** | -10°C to +35°C |
| **Operating Depth** | 100msw (11 BAbs) |

### Electrical

| | |
|---|---|
| **Screen** | Tilted 3.5”, 320 × 240 pixel, 16-bit colour Liquid Crystal Display with adjustable back-light brightness. |
| **Data Logging** | 16Gb Flash memory. Data Logging capacity (at approx 2Mb per minute) > 100hrs on internal storage. |
| **Integrated Sensors** | Pressure, Immersion, Attitude/Heading (pitch & roll, compass, rotational rate gyros),Battery voltage |
| **User Interface** | 5 × solid-state piezo button interface for menu navigation and parameter control |
| **Communications** | 1 × powered RS-232 serial ports (for GPS).<br>USB port for connection to a PC. |
| **Connectors** | Fischer UltiMate series connectors: 1 × 2 pin DC power, 1 × 7 pin USB/Serial connector |

### Battery Pack

| | |
|---|---|
| **Operating Time** | More than 10 hours from charged battery pack. |
| **Charing Time** | No more than 4 hours from fully discharged state. |
| **Charger Supply** | 90-264V AC Mains at 50-60Hz |

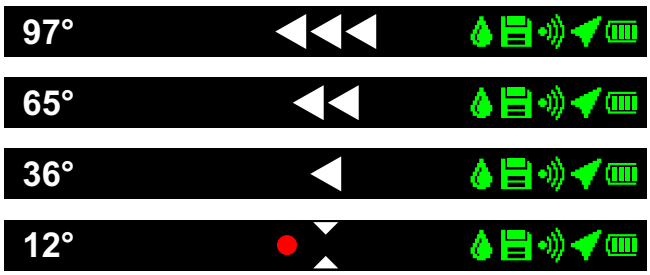
### GPS Navigation Float

| | |
|---|---|
| **Dimensions** | 87mm (3.4") diameter, 145mm (5.7") long |
| **Cable length** | 30m (consult factory for other lengths) |
| **Receiver Type** | GPS L1 C/A-code, SPS. 66 acquisition and 22 tracking channels. Internal back-up battery to decrease cold start acquisition times) |
| **Receiver Sensitivity** | High Sensitivity : -148dBm (Cold Start Acquisition), -165 dBm (Navigation) |
| **Datum** | WGS84 |

## Swim Guide

Regardless of the main display being shown, the status bar is always visible along the bottom of the screen.

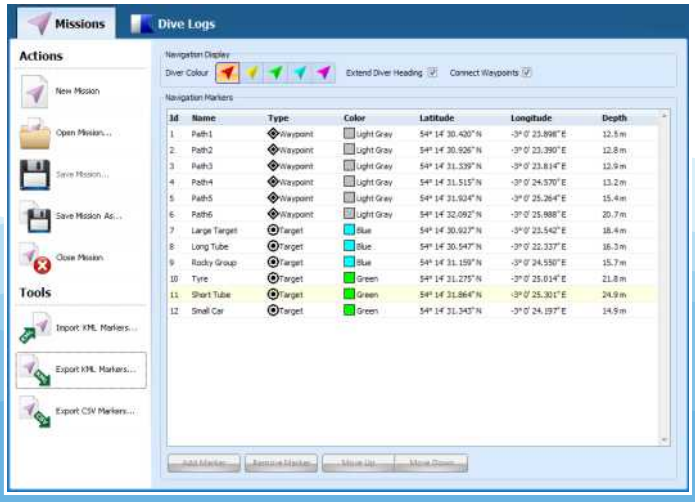
In addition to a selection of coloured status icons (showing Power, GPS, Logging and Immersion states), the status bar also provides the diver with "**heading to swim**" directions for the currently selected navigation destination.




If the diver is more than 30°, 60° or 90° off the desired heading, 1, 2 or 3 arrows indicate respectively that they should turn either left or right. Below 30°, a circular 'bubble' moves across the status bar to allow fine tuning of the course.

## Missions & Dive-Logs

The Navigator is supplied with a PC Windows software application that is used pre-dive to create Mission Files to configure the console with navigation marker locations (waypoints, targets of interest etc) and post-dive to review position data collected in Dive-Log files, with additional targets marked during the dive.






*Please note that all specifications may be subject to change in line with our policy of continual product development.*

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