Before using the ArtemisPRO system for the first time, please read the full User Manual as this contains important safety and operational information.

- Do not rely on this product or its sensors as a primary means of life-support during or after a dive. Artemis is designed as a survey tool, and not as an alternative or replacement for dive-computers or similar apparatus.
- Do not submerge the console, unless the USB Blanking Plug is fitted and the battery pressure valve has been checked.
- Do not use this product if any of the cabling, or housings of its component parts appear to be damaged or compromised for the ingress of water (where required to be watertight).

Maintenance & Storage
When you have finished using your ArtemisPRO system, you should:
- Remove any weed, or other detritus, that may have been collected during its operation.
- Wash the system in fresh water, if it has been used in salt-water, to prevent corrosion and damage to rubber mouldings.
- Store in a well ventilated location after use, to allow any moisture on system components to evaporate before closing the case.

For long-term storage (more than a couple of weeks):
- Remove the Battery Pod
- Charge batteries and store in a fully charged state
- Every 6-12 months inspect system parts and recharge batteries.

GETTING STARTED
Check that your ArtemisPRO system contains the following items...
1. Transit and storage case
2. ArtemisPRO
3. Battery Pods (x2)
4. Battery Charger & Mains Lead
5. Satellite Receiver Float
6. USB Adapter & USB Lead
7. Chassis Rear Cover
8. USB Blanking Plug
9. User Manuals, Software Media (CD or USB stick) and ENC S-57/S-63 Dongle

CONSOLE FEATURES

- Chassis
- Console (Display and Keypad)
- Battery Pod
- Navigation Pod (DVL, AHRS, GNSS)
- Forward-looking Multibeam Sonar
- Dive-Light
- Video Camera
- DVL Transducers
- Chassis Cover & USB Blanking Plug

Button Functions
- Power Button
  (Power On / Power Management Display)
- Home Button
  (Home Screen / Tools Screen)
- Function Buttons
  (F1 to F8 - function depends on display)

Combined Button Functions
(Press both buttons at the same time)
**BATTERY PODS & POWER**

### Charging Batteries

1. **Charging Batteries**
2. **Batteries will self-discharge in storage.**
3. **Charge Battery Pod before use.**
4. **Refer to manual for full Battery safety and usage instructions**

### To Turn Power ON

- Press **Pressure Relief Valve** firmly before use to check it is sealed.
- **Insert Battery Pod fully into the chassis.**
- Ensure connectors align and mate fully.

### To Turn Power OFF

- **Battery groove clicks into place to secure.**

### Charge Status Indicators

- **Yellow**
- **Fast Charge**
- **Orange**
- **Top-off Charge**
- **Green with Yellow Pulse**
- **Complete (Trickle Charge)**
- **Green**
- **Error (Charging Stopped)**
  - (turn off and leave Battery Pod to cool for one hour minimum)
  - **Orange and Green Flashing**

### Connecting Batteries

- **Approx 4h**

#### Power:

- **20s**

#### USB PORT

### Accessing The USB Port

- **Pull rear chassis cover outwards to access the USB connector.**

### Connecting The USB Cable

- **Use the USB Adapter Lead and USB Cable to connect ArtemisPRO to a PC.**

#### Connecting the Satellite (GNSS) Float

- **Ensure the float cable is secured to the diver or chassis and no strain is placed on the connector.**

### Replacing The Chassis Cover & Blanking Plug

- **Always replace the Chassis Cover and USB Blanking Plug after use!**
  - **This stops the connector pins from getting wet, preventing damage and corrosion.**

**USB Connector**

**PC with NavPoint software Navigate to "\ARTEMISPRO"**

**You will need to install RNDIS drivers when connecting a PC to ArtemisPRO for the first time. See the manual for further details.**

**Connecting The USB Cable**

1. **USB Adapter Lead**
2. **USB Cable**

**Navigate to "\ARTEMISPRO"**

**Tools**

**www.blueprintsubea.com v2.0.1234**

**Missions**

- **Markers**
- **Start Dive**
- **Dive Logs**

**Sonar**

- **Navigation**
- **Diver**
- **Vision**

**Vision System:**

- **OFF**

**System Status:**

- **FLOAT**
- **DVL**
- **SONAR**
- **CAMERA**
- **LIGHT**

**Dive Logs**

- **Target 2**
- **8.4m**
- **Depth:**
- **374m**
- **Distance:**
- **217°**
- **Heading:**
- **32.7m**
- **Altitude:**
- **Selected Marker:**

**Power:**

- **73%**

**Charge:**

- **Estimated Life:**
- **04:18**

**Voltage:**

- **14.5V**

**Power Drain:**

- **26.1W**

**Sonar System:**

- **ON**

**Power Mode:**

- **LOW POWER**

**Vision System:**

- **OFF**

**CANCEL**

**Turn Power Off**

- **Are you sure you want to turn the power off?**
  - **This will stop any logging any may loose your position until a new fix is obtained.**

**Refer to manual for full Battery safety and usage instructions**

**Batteries will self-discharge in storage.**

**Charge Battery Pod before use.**

**Charging Batteries**

- **20s**

**Connecting Batteries**

- **OFF**

**Power OFF**

- **HOME**

**USB Connector**

**USB Cover & Blanking-Plug**

**USB Port**

**Connecting The Satellite (GNSS) Float**

- **Ensure the float cable is secured to the diver or chassis and no strain is placed on the connector.**
**MISSION FILES & MARKERS**

Markers are geographic locations such as waypoints (defining a swim route), targets, hazards or other points of interest.

Mission Files contain lists of markers that are relevant to a dive. Mission Files can be created on a PC using NavPoint or on the console.

**Navigation Bubble**

Provides guidance to the selected marker in the Status Bar:
- The marker to the left or right of the current heading.
- Rotate to align the ‘bubble’ in the centre of the bar.
- The diver is on course for the selected marker.

**Marker Manager**

Use the highlighted Mission File
- The Marker Manager will show markers from this file.
- Create a new Mission File

**Marker Editor**

Use up and down arrows to highlight the field to edit and +10, +1, -1 and -10 buttons to adjust the value.

**Sonar Power**

- **Power State (Red = Off)**
  - Power Control (On/Off)
  - Power Saving Mode (Low, Normal, High)

**Sonar Display**

- **Range**
- **Gain** Image Brightness
  - **Frequency** Low/High

**Acoustic Shadows**

Use the shadows cast by sound to help identify targets:
- Shallow Seabed Angle
- Long Acoustic Shadow
- Short Acoustic Shadow
- Steep Seabed Angle
- Wide Acoustic Shadow
- Nearby Target
- Distant Target
- Obscured Target

**Seabed Coverage**

A rule-of-thumb for 70% seabed coverage on the display is to maintain an altitude of 10% of the sonar range above the seabed.

**Range & Beam Pattern**

- **Horizontal**
  - High Frequency up to 40m
  - Low Frequency up to 120m

- **Vertical**
  - High Frequency 130°
  - Low Frequency 20°

**Frequency**

- **750kHz Low Frequency Mode**
  - Shows targets up to 120m range
  - Horizontal 130° field-of-view
  - Used for searching activities.

- **1200kHz High Frequency Mode**
  - Shows targets up to 40m range
  - Horizontal 80° field-of-view
  - Used for high detail inspection.

**Gain**

Controls the brightness of the sonar image
- Less Gain
- More Gain

**Sonar Palettes**

The colour scheme of the display image can be selected using the Palettes option in the Sonar Settings menu:
- Grey
- Copper
- Blue
- Green
7 USING NAVIGATION

To reset the divers dead-reckoning position, choose a MARKER or use a SATELLITE fix (from the float, or return to the surface).

Reducing Errors

Calibrate the Compass before each dive to remove any magnetic errors.

Hold ArtemisPRO level:

- Level (less than ±20°)
- Not Level (more than ±20°)

Specify the Water Salinity in the Sensors menu of the Settings display.

Compass Calibration

Choose "Calibrate Compass" from the Tools Screen - Press START to begin:

① Hold ArtemisPRO in the six orientations for each face of a cube.
② For each orientation, rotate slowly on the same spot in both directions.
③ Press PROCESS and ACCEPT when complete.

8 DIVING & DIVE-LOGS

Starting A Dive

Ensure the internal Satellite receiver has a good fix and a Mission File is selected if required.

Steps ① and ② allow the diver to choose the starting location for dead-reckoning to track from. At step ③, choose NO to use dead-reckoning.

Dead-Reckoning Dive

Connect the external GNSS float (using the internal GNSS receiver for continuous satellite navigation is not recommended as larger position errors can occur as the receiver is submerged).

At step ④, choose YES to allow satellite fixes to be processed during the dive (even if a float isn’t connected).

Continuous Satellite Fix Dive

Select Dive-Logs to replay in the Dive-Log Manager display:

Move the list selection up and down.

Replaying Dive-Logs

Data is recorded in the Dive-Log and Navigation starts.