

ARTEMIS

QUICK START AND REFERENCE

1 BEFORE YOU START

Check that the Artemis system contains the following items...

- Artemis Console and Sonar (option)
- Artemis GPS float (option)
- Rechargeable NiMH battery pack (16.8V, 2.2Ah)
- Battery charger (Universal AC supply, 3-stage charging)
- USB connection lead
- USB and Serial port blanking plugs (1 of each)
- Artemis Manager software CD (for Microsoft Windows)
- User documentation
- Transit case



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

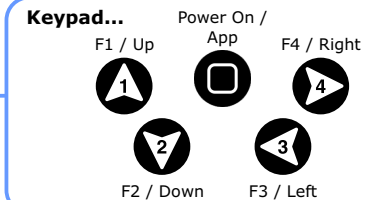
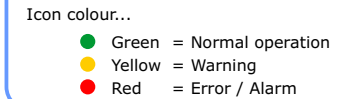
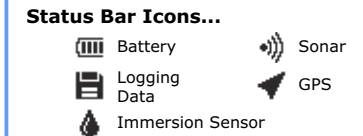
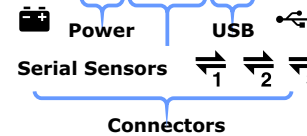
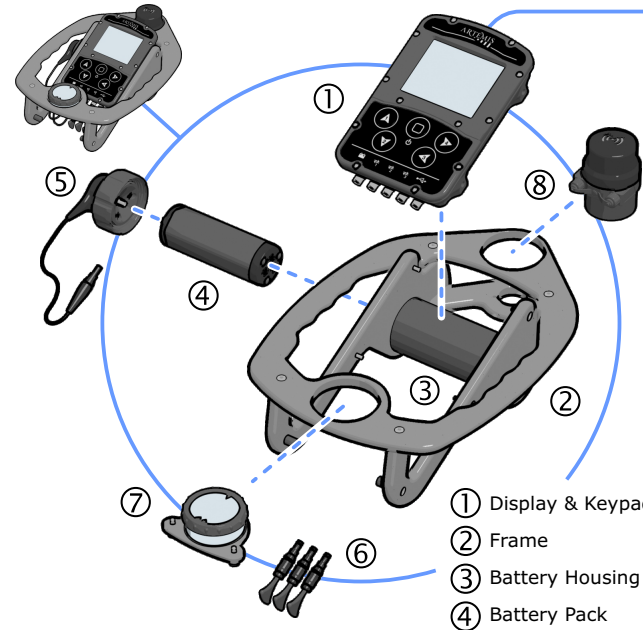
- Do not rely on this product or its sensors as a primary means of life-support during or after a dive. Artemis is designed as a survey tool, and not as an alternative or replacement for dive-computers or similar apparatus.
- Do not submerge the console, unless all blanking plugs are fitted in unused electrical connector sockets, and the battery housing cap is secured.
- 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).



When you have finished using your Artemis system, you should...

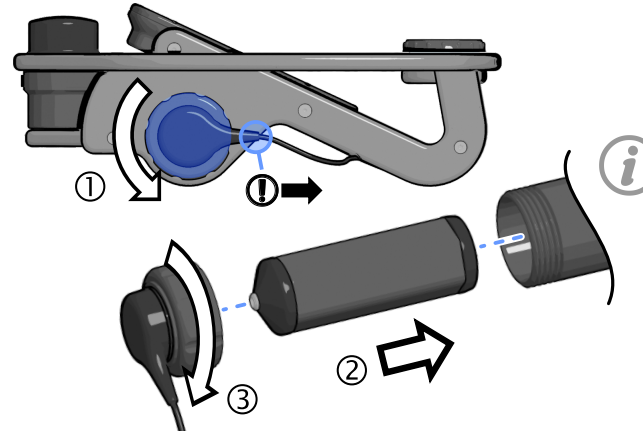
- Remove any weed, or other detritus, that may have been collected during its operation.
- Wash the system in fresh water, if it has been used in salt-water, to prevent corrosion and damage to rubber mouldings.
- Store in a well ventilated enclosure after use, to allow any moisture on system components to evaporate naturally.

2 FEATURES



3 BATTERY CHARGING, FITTING & CARE

To fit (or remove) the battery pack...



To charge the battery pack...

- With the charger turned off, plug the charging lead into the socket at the end of the battery pack.
- Charging can take up to 7 hours, during which time the battery may warm.
- The charger status indicator colour shows current mode, completion or error.

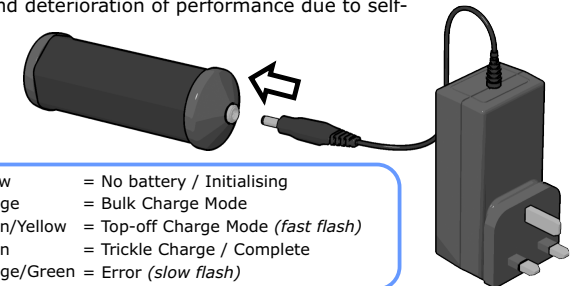
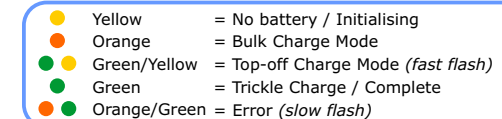


Please refer to the full list of safety notices, care and storage guidelines in the user guide.

- Use only the supplied Artemis charger with the Artemis NiMH battery packs.
- Do not allow the charger or battery pack to be exposed to water.
- Charge batteries in a well ventilated location where ambient temperature is between 10°C and 30°C.
- Avoid repeatedly re-charging the battery without allowing for a minimum 30 minute cooling period between charge cycles.

When storing batteries...

- When not in use, batteries should be disconnected from the charger and stored in a fully charged state. Do not leave battery packs in the Artemis battery housing for long periods of storage.
- The chemistry of the nickel metal hydride battery pack will self-discharge approximately 1% of its charged capacity per day
- When storing batteries for more than one year, charge at least once a year to prevent leakage and deterioration of performance due to self-discharging.



4

PRE-DIVE CHECKLIST

With Artemis connected to a PC...

- Check that any required mission files have been uploaded onto Artemis
- Check that Mission files to be used have enough free "marker" slots to allow the diver to define any in-mission markers if required.
- Check there is enough free space on the internal storage for the Dive-Log file (allow approximately 2Mb of storage space per minute of the dive).

Hardware preparation...

- Check a fully charged battery been fitted and the housing cap is tight and sealed correctly.
- Check that blanking plugs have been fitted into **all** unused connector sockets, preventing water ingress.
- If the GPS Float is used, check its tether is securely attached to the Artemis frame, avoiding strain on the connector.

Software preparation, prior to use by the diver...

Power on Artemis and check the required status icons go green...

- If the Sonar is to be used, check the Sonar status icon on the Artemis Display status bar is visible and white (red indicates no Sonar connected, yellow indicates invalid data).
- If the GPS Float is to be used, check the GPS status icon on the Artemis Display status bar is visible and green (red indicates no GPS connected, yellow no GPS fix determined).
- The Immersion Sensor droplet icon is red when Artemis is not submerged. When submerged, dive logging starts automatically (the disk icon goes green).
- If no droplet icon is shown, the immersion sensor is not enabled (or fitted), so manually start dive logging if required from the "Settings" app.

5

USING APPLICATIONS

Application Key Functions...

Switch Application	F1 / Up	F2 / Down	F3 / Left	F4 / Right
Power	Power Off	Toggle Port 1 Power	Toggle Port 2 Power	Toggle Port 3 Power
Settings	Selection Up	Selection Down	Prev Value / Execute	Next Value / Execute
Sonar	Range Up	Range Down	Gain Down	Gain Up
Navigation	Mark Target	Next Target	Zoom	Display Mode
Dive Profile	Zero Depth Sensor	<i>Not used</i>	<i>Not used</i>	<i>Not used</i>

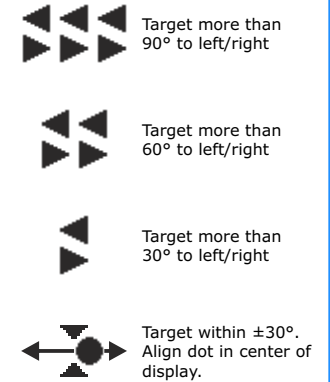


De Hoogjens 22
4254 XW
Sleeuwijk
The Netherlands

Tel: +31-183-307900
Fax: +31-183-307910
Email: info@seascape.nl
www.seascape.nl

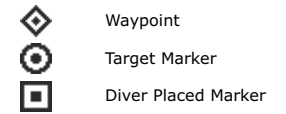
Interactive Navigation...

Icons found on the Status Bar:



Navigation Markers...

Icons found on the Navigation App display:

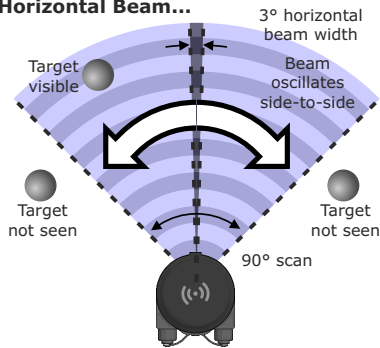


6

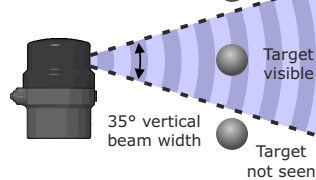
USING THE SONAR

- Select the Sonar app.
- Hold Artemis horizontal and stationary while to Sonar performs a full scan on the display
- The Sonar will only display objects in its acoustic field of vision.
- Targets cast acoustic shadows than can obscure other targets behind them. Because of this, only the leading edges of targets are shown on the display.
- Vertically aligned targets produce the same echo and will appear as a combined target on the display.

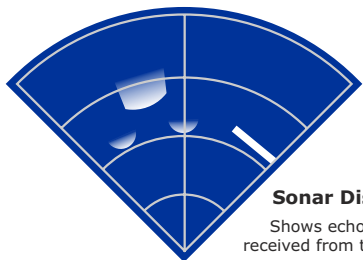
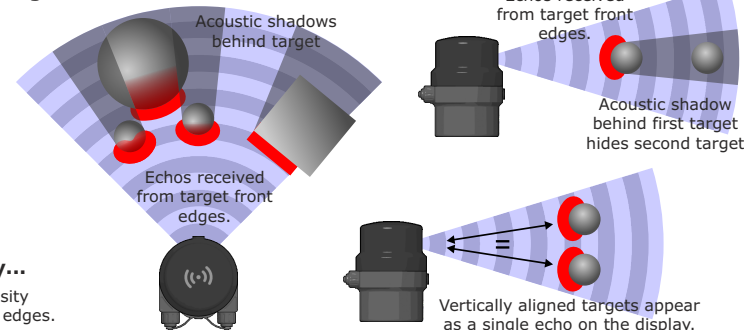
Horizontal Beam...



Vertical Beam...



Target Echoes & Shadows...



Sonar Display...

Shows echo intensity received from target edges.

7

REVIEWING DIVE LOGS

To download recorded "Dive Log" data (or upload new "Mission" files onto Artemis)...

- Plug the USB lead into the USB connector at the base of the console, and connect the other end of the lead into a free USB socket on a PC / Laptop that has the Artemis Manager software installed.
- Turn Artemis on and after a few seconds the Windows™ operating system should detect Artemis, and appear as a "Mass Storage Device" (similar to a USB pen-drive).
- Use the Windows File Explorer (or other file manager) to download and remove any Dive Log files.



To prevent corruption to any of the files, always follow the Windows "Safely Remove Hardware & Eject Media" procedure, before disconnecting the USB cable or powering-down Artemis.



Artemis Manager Icons...

