Pre-Dive Checklist

artemis pro — **blueprint subsea**

Prior to diving, it is recommended to work through the following checklist:

Action	Notes
• Charge the Battery Pod.	This may take up to 4 hours.
• Check the Pressure Relief Value, connect the Battery Pod and turn ArtemisPRO on.	Check the Battery Pod Pressure Relief Value has been pushed firmly into its sealed position. Ensure the Battery Pod is pushed fully into place in the ArtemisPRO chassis. The Home Display is shown after 15 to 30 seconds.
• Check the Battery Pod is fully charged.	The Status Bar should show a green icon with all 4 battery 'bars' present, or use the Power Display for more battery and run-time information.
• Select a Mission File.	The Mission Files should define Markers required during the dive. Use either NavPoint or the built-in Mission and Marker editors to create the file.
• Check available storage space.	This can be seen in the Dive-Log Manager display. Allow for up to 10Gb per hour (or 170Mb per minute) if sonar and dynamic video content are being recorded.
• Check the water salinity value is correct.	The Sonar and DVL sensors need the correct Velocity-of-Sound to give accurate readings. Set the "Water Salinity" option in the Settings Manager. For fresh water use 0ppt, for salt-water generally use 35ppt unless you know a specific salinity for the dive location.
• Check the depth sensor is reading zero.	If required, use the "Zero Depth" function from the Sensors menu in the Settings Manager, or ensure the "Auto Zero Depth" sensor setting is enabled.
• If using the GNSS Float, check it is correctly attached and secured to the chassis.	If using the external satellite receiver float, the blanking plug is not required. Ensure the float tether is secured to the diver or ArtemisPRO and no strain is placed on the plug or connector.
• Check the Satellite (GNSS) Receiver has a good position fix.	Switch to the Satellite Display and wait for Satellite Constellation information to appear and a GOOD position fix to be obtained. This may take 2-3 minutes if the GNSS has not been used for a few days (performing a 'cold start').
• Check the date and time are correct.	Check the Date and Time on the Home Screen is correct. If not, either manually set the time using the "Set Clock" option in the Settings Manager, or with SET TIME from the Satellite Display (the "Set Clock UTC Offset" must be correctly set with your time zone first).
• Check compass stability	After power-up, it may take up to 5-minutes for the AHRS to "warm up" and compass readings become more stable and accurate. If necessary allow this period to elapse before calibrating the compass.
• Calibrate the compass.	Check that automatic magnetic declination is being used, or manually enter the declination value in the Settings Manager. Perform a calibration of the compass.
• Power up the Sonar and Camera if required.	From the Power Display turn on the Sonar, Camera and Dive-Light if required.
• Check sensors are ready.	From the Power Display check that all relevant sensor icons are showing GREEN and good to go.
• Check the USB Blanking Plug and cover is fitted (unless using an external float).	If the USB/Float connector pins contact water they may be damaged, erode or lead to flooding of the console. Ensure the blanking plug is fitted before diving unless an external accessory (such as a GNSS float) is being used.
• Start Dive-Logging	Either just prior to entering the water, or just after, or at the bottom of a shot-line, select START DIVE and follow the on-screen questions to choose your starting location and start the logging of position and sensor data.

Post-Dive Checklist

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When a dive is complete and the diver exits the water, it is recommended to work through the following checklist:

Action	Notes
• Stop Dive-Logging.	On returning to the surface, chose STOP DIVE from the Home Display.
• Turn off the Dive-Light.	If ArtemisPRO is fitted with a dive-light, switch to the Vision Display and press LIGHT turn it off to prevent overheating and save battery power.
• If used during the dive, disconnect the GNSS float.	If the external GNSS receiver has been used, disconnect it and refit the AUX blanking plug.
• Download any recorded Dive-Logs and Snapshot files to a PC	Use the USB lead to transfer files onto a PC for review in the NavPoint software. Alternately, Dive-Logs can be replayed on the ArtemisPRO console and deleted as required.
• Turn power off.	Press POWER to show the Power Display and then press OFF.
• Ensure the blanking plug is fitted.	Once any file download has completed, replace the blanking plug to protect the USB connector pins.

Short Term Storage (up to a couple of weeks)

• Ensure the USB blanking plug is fitted.	While downloading files after a dive, the USB blanking plug may have been removed. Replace the blanking plug to protect the USB connector pins.
• Submerge and wash in clean fresh water to remove any salt and silt deposits.	Wash off any silt or salt residue that may corrode Aluminium parts and degrade rubber, and remove any marine detritus such as weed. Keep the Battery Pod connected to the unit during washing (do not expose the Battery Pod connector pins to water!)
• Leave to dry in an open and well-ventilated space.	To reduce corrosion and prevent the growth of mould or mildew, allow all parts to thoroughly dry before sealing into the transit case.
• Clean the display glass and camera lens with a soft lint free cloth if required.	If any salt or other residue is on the glass display or camera lens, use a soft clean cloth to gently clean the surfaces. Only use fresh water as a cleaning agent, do not use any other solvents or glass cleaning products as this may damage rubber seals.

Long Term Storage (more than a couple of weeks)

• Remove the Battery Pod.	Do not store ArtemisPRO for any length of time (more than a few weeks) with the battery pack connected, as there will always be a small current drain on it.
• Recharge the Battery Pod to maintain performance.	When storing for periods longer than a few weeks, it is recommended to charge the battery prior to storage – batteries will discharge during storage, but this reduces the risk of its performance degrading and the need for reconditioning charge cycles before further use.
• Store in a cool and well ventilated area.	For best battery life, store the equipment at cooler temperatures – ideally between 10°C to 25°C.
• Every 6 - 12 months, inspect system parts and recharge Battery Pods.	Periodically check the system for signs of corrosion, mould growth, perishing of rubber connector components and cable insulation and damage or cracking to the battery housing. Batteries can remain uncharged for up to 3 years, but periodic recharging is recommended to maintain battery performance.