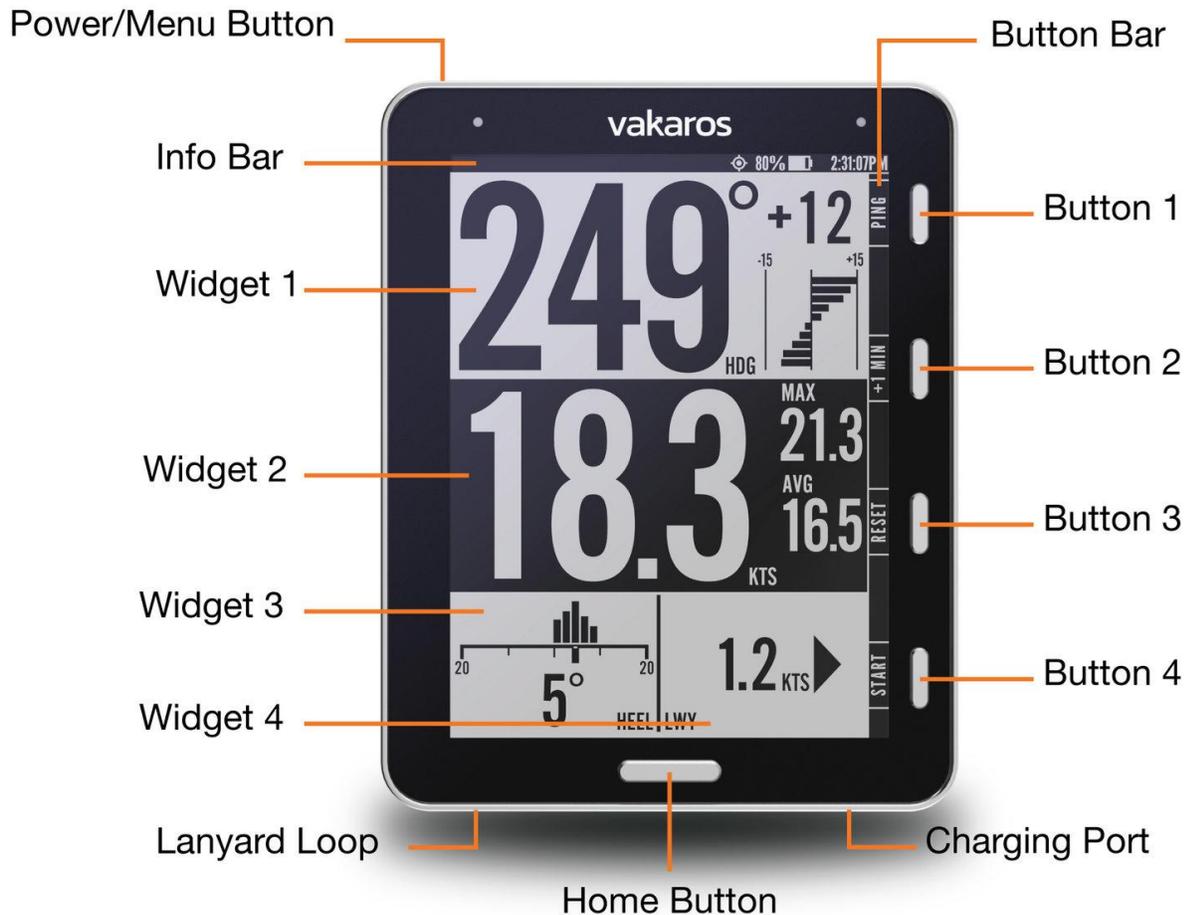


Atlas 1 User Manual

This document is distributed for Atlas 1 users that want the original user manual. We suggest that you also look at the Atlas 2 documentation. While some of the hardware capabilities are different, the Atlas 1 will receive many of the same software features via continuing updates.

Welcome to the future of sailing. The Atlas is the culmination of years of work and the cornerstone of a growing ecosystems of sensors and displays. This guide covers the last version of the Atlas 1 firmware prior to the release of the Atlas 2. New versions are released regularly with new features and improvements—see Vakaros Connect, below, for more details.



Power:

Press and hold the Power/Menu button to turn the Atlas on or off.

To charge the Atlas, connect the USB end of the included charging cable a USB charger. Then attach the magnetic end to the charging port on the Atlas. It is recommended to charge your Atlas to full capacity at least once every 3 months.

If the Atlas was previously used in salt water, wipe down the charging port with a damp cloth prior to charging, see care instructions below.

Display & Buttons:

The info bar displays device information like Battery Level and Current Time.

Buttons 1 - 4 are contextual and can change function based on what is being displayed. The button bar displays the current functions of each of the 4 buttons. The default and most common functions are: LINE, ANGLE, RESET, and START. LINE is used to set the starting marks (see Line Menu, below). ANGLE is used to set and view *reference angles* for tracking shifts, RESET and START control the start timer.

The Home button allows you to return to the home screen from any menu and is used to cycle through your configured layouts.

Screens:

Pressing the home button at the bottom of the Atlas will cycle through all of the different screens currently set up on your Atlas. Each screen is populated by widgets, which display different kinds of data.

The main screen, at right, has 4 widgets: Heading, Speed, Heel, and Trim. The heading widget includes a shift tracking display, with a lift/header indicator in degrees and a trend graph, both determined relative to the current reference angles, see Angle menu, below. The speed widget shows current speed in knots, as well as the max and 10 second average. The heel and trim

displays show the current value in degrees and consistency bars, measuring how steady the boat has been in heel and trim.

Other layouts are shown at right, including the starting screen, with the start timer and distance to line, as well as a graphical starting screen, which shows the position of the boat relative to the line.



Line Menu — Start line setup

The Atlas is designed to help you get a great start to any race, showing a highly accurate measure of distance to line (DTL), as well as a start timer. To measure DTL, begin by pressing the LINE button to record the locations of the marks which define the starting line. This brings up the Line Menu, and dedicates buttons 1 and 2 to recording the locations of the Boat and Pin. Each time the BOAT or PIN button is pressed, the Atlas will save the current GPS coordinates as the location of that mark, replacing any previous pings. Once both marks have been recorded, the Line Menu will show additional information about the starting line, including line length and perpendicular heading. Line bias and advantage information is displayed if shift tracking reference angles are set, see below. Exit the Line Menu by pressing the Back button or the Home button.

Once the starting marks have been recorded, the Atlas automatically displays DTL on the starting screen, measured in meters. DTL is currently calculated without any bow offset, this feature will be available in a future release. To start the 5 minute countdown timer, press Start. Minutes can be added to the timer using the +1 button. The Start button becomes Sync while the timer is running. Pressing Reset will stop the countdown timer and reset it to 5 minutes.

After the countdown timer reaches zero, the Atlas will automatically change to the main screen. The timer will continue counting up in the background, until the End button is pressed.

[Time-to-line](#) is now available as a beta feature!



Angle Menu — Shift tracking and reference angles

To set up shift tracking on the Atlas, press the ANGLE button to bring up the ANGLE Menu. There are two options for setting port and starboard [reference angles](#), an automatic method and a manual method:

1. Automatic method

Start automatic reference angle capture by pressing the AUTO button on the ANGLE menu. The Atlas will walk you through sailing a short upwind leg, recording data while you sail and determining your reference angles *automatically*. Follow the on-screen prompts, and in about a minute, you'll be all set to track shifts. In most conditions, this method will provide the best results, as it minimizes the impact of small oscillations and waves, while

allowing the crew to sail the boat normally, without needing to interact with the Atlas once the process is started.

2. Manual method

You can also set the Port and Starboard reference angles by pressing the corresponding PORT and STBD buttons on the ANGLE screen to record the current heading. Keep in mind that an instantaneous snapshot can introduce some error in the reference angles.

We recommend checking your reference angles before every race and resetting them if necessary. The ANGLE screen also shows some additional useful information, including an estimate of the wind direction (the midpoint between the Port and Starboard reference angle), the dead downwind angle, the tacking angle and average upwind speed.



Mounting:

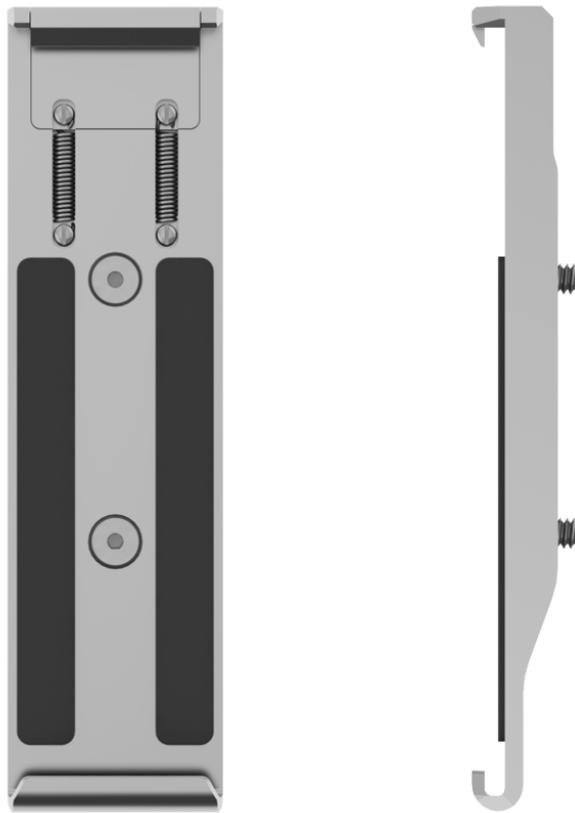
In order to mount the Atlas to your boat, you will need to attach the included **Atlas Mount** to the boat. The mount can be attached directly to a mast track, bulkhead, or any flat surface using the two provided 6-32 screws or by running a velcro strap through the hole in the side. The mount can be installed in either orientation, with the release tab facing up or down. Be sure that the release tab will be accessible with the Atlas installed—pulling this tab is the only way to remove the Atlas from the mount.

To attach the Atlas to the mount, first hook the solid end of the mount into one of the slots on the back of the Atlas, then push the Atlas towards the

quick-release end of the mount until it clicks securely into place. To remove the Atlas, press the Atlas gently towards the mount, pull on the quick-release tab, tilt the Atlas away from the mount to remove it.

For maximum mounting security, tie a safety line to the lanyard loop on the bottom left corner of the Atlas.

In order to use the magnetic compass, heel, and trim, the Atlas must be mounted to a fixed location on the boat (i.e. not on a boom or rotating mast).



Care Instructions:

Store the Atlas in its case to avoid scratching the anti-reflective & hydrophobic coating on the glass.

Wipe away salt & salty water when finished sailing.

After using the Atlas in salt water, clean the charging port with a damp cloth or soft brush prior to charging. **Important: Do not charge the Atlas with salt present on the connector. The charging port should be clean and dry prior to charging.**

To clean the Atlas, use a soft cloth. Dampen cloth with water if necessary.

Don't leave the Atlas outdoors when not in use.

Don't leave the Atlas submerged in water for extended periods.

Vakaros Connect App:

Vakaros Connect is available in the iOS and Android app stores. Vakaros Connect links wirelessly with your Atlas to provide firmware updates and a live data view. Upcoming releases will add support for customizing settings and displays on the Atlas, as well as downloading your sailing data.

The Atlas is designed to get better over time, with new features and improvements being added regularly—make sure to install Vakaros Connect and set up your account to stay up to date!

