## Raymarine

**NEW PRODUCT INTRODUCTION** 

ALPHA
PERFORMANCE
DISPLAY AND SMART
WIND



**AUGUST 2023** 





#### ALPHA



**SMART WIND** 





**NEW PRODUCT INTRODUCTION** 



# ALPHA PERFORMANCE DISPLAYS

#### ALPHA INTRODUCTION



7- and 9-inch-high visibility touchscreen displays

Fully customisable dashboard and graphic displays to help you make smarter sailing decisions.

Be a better sailor and navigator with intuitive performance sailing graphics

Create a network of Alpha displays + Axiom for a commanding view of critical Display data



#### ALPHA: MAXIMUM PERFORMANCE





High bright 1500 nit displays

Polarized sunglass-friendly extra wide viewing angle, viewable on the mast or remote location

Exclusive HydroTough™ nano coated display resists water and oils

Auto-dimming using an integrated ambient light sensor

#### ALPHA: MAXIMUM FLEXIBILITY



Portrait & Landscape mounting options

Mount at the nav station, cockpit, or mast.

Lockable touch screen with programmable auto-lock.



#### ALPHA: MAXIMUM FLEXIBILITY







Fully customisable dashboard page layout widgets with graphs, bars, dials or digits.

#### ALPHA: MAXIMUM FLEXIBILITY



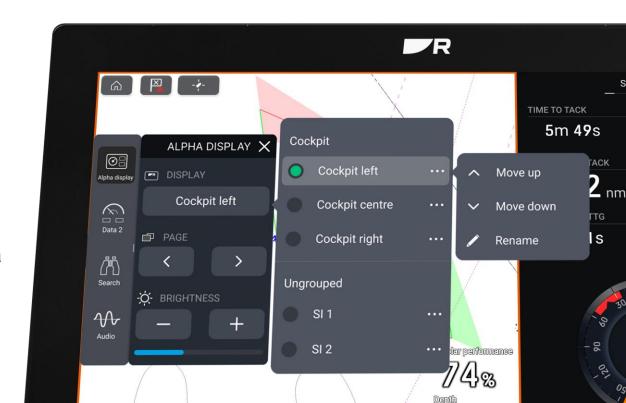
Customisable colours and dashboard page layouts



#### MAXIMUM FLEXIBILITY: AXIOM CONTROL



Take control of remote Alpha displays from any Axiom display.





Intuitive graphical Display displays designed for tactical awareness and improved decision support.

Sailing Graphics







Hit your lay line every time with Sailpoint™









SailPoint™ provides you with a visual reference of your target wind angle, to help you achieve maximum VMG upwind or downwind.

Dynamic horizon line shows if you are sailing to your target boat speed.



Dynamic wind performance display, automatically zooms into pertinent portion of the wind Display display









Dynamic wind performance display, automatically zooms into pertinent portion of the wind Display display



#### ALPHA: 3D FLOATING COMPASS





The 3D compass widget provides skippers with digital simulation of the familiar ship's compass

The compass floats and provides current heading like an actual compass

#### 3D FLOATING COMPASS VIDEO













#### **ALPHA SAILING**

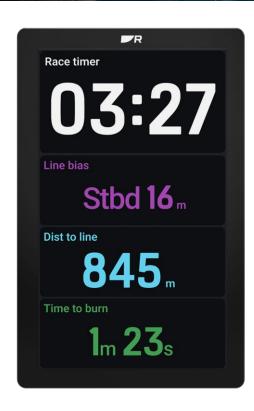






#### **ALPHA SAILING**

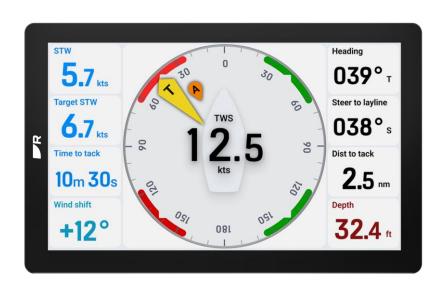






#### **ALPHA SAILING**















#### **ALPHA NAVIGATION**









#### ALPHA ENGINE DATA









#### ALPHA: SIMPLIFIED INSTALLATION



Single cable for power and data

Daisy chain up to 4 displays

Fewer cables in the mast / through the deck









#### ALPHA: SIMPLIFIED INSTALLATION





Optional 1m, 3m, 5m, 10m power and data cables (power/data cable not included)

Optional 0.3m and 1m network daisy chain cables



#### ALPHA MAST MOUNTING BRACKETS









Available in dual landscape, single portrait and single landscape configurations for both 7 and 9-inch

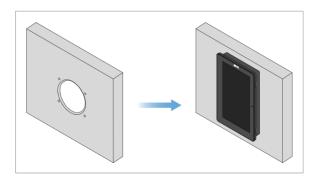
Stackable with interlocking screws, included

Light, strong, anodized aluminum construction

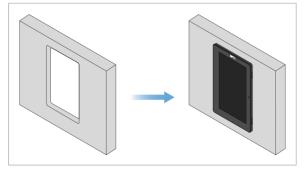
Display mounting screws included with brackets

#### HELM MOUNTING OPTIONS

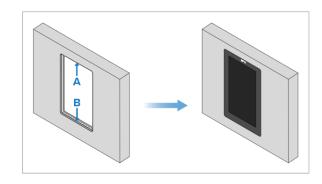




Instrument Mounting (91mm 3.58 in Hole)



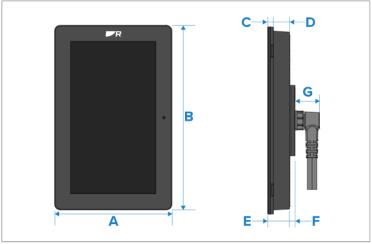
**Surface Mounting** 



Flush Mounting

#### PRODUCT SIZE



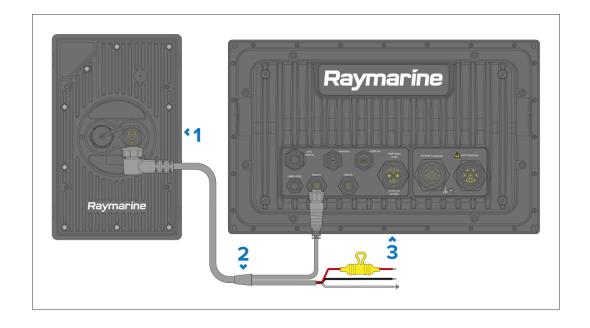


Alpha 7	Alpha 9
<b>A)</b> 120.1 mm (4.72 in)	<b>A)</b> 148.9 mm (5.86 in)
B) 188.4 mm (7.42 in)	<b>B)</b> 253.9 mm (9.29 in)
<b>C)</b> 7 mm (0.28 in)	<b>C)</b> 7 mm (0.28 in)
<b>D)</b> 18 mm (0.71 in)	<b>D)</b> 20.5 mm (0.81 in)
<b>E)</b> 25 mm (0.98 in)	E) 27.5 mm (1.06 in)
<b>F)</b> 7 mm (0.28 in)	F) 7 mm (0.28 in)
<b>G)</b> 30.9 mm (1.22 in)	<b>G)</b> 30.9 mm (1.22 in)

The Alpha 7 in landscape has a height that almost matches that of an i70, making it a fit for most companion ways.

#### **ALPHA SYSTEM**



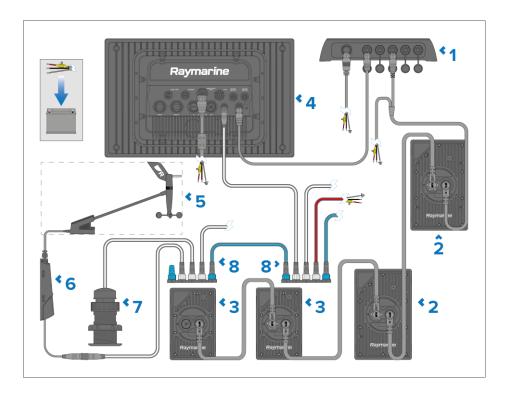


# **Axiom and Alpha Basic Integration**

- 1. Alpha Display
- 2. Alpha Power/RayNet Data Cable
- 3. Axiom Display

#### **ALPHA SYSTEM**



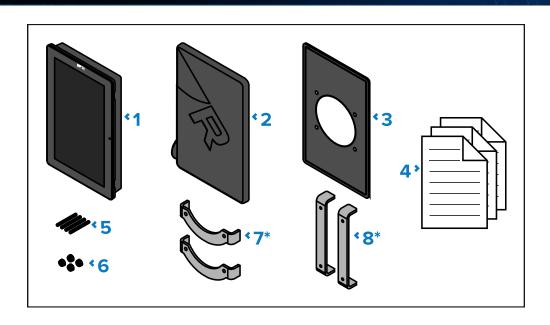


#### **Alpha and Axiom Extended System**

- 1. RNS-5 Network switch
- 2. Alpha 9 Performance display
- 3. Alpha 7 Performance display
- 4. Axiom 2 XL chartplotter display.
- 5. RSW Wired Smart Wind.
- 6. Wired Wind Gateway
- 7. DST Transducer
- 8. SeaTalk<sup>ng</sup> ® 5-way connector (A06064)

#### ALPHA PACKAGE CONTENTS



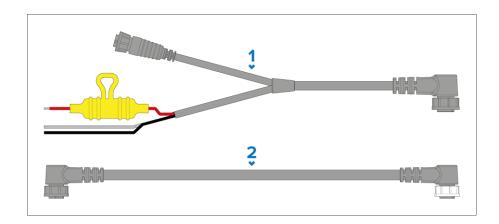


- 1. Alpha display
- 2. Suncover
- 3. Gasket
- 4. Documentation
- 5 4 x Threaded studs, M4 x 40 mm
- 6 4 x Thumb nuts
- 7 Alpha 7 only 2 x mounting brackets
- 8 Alpha 9 only 2 x mounting brackets

Note: Power cable sold separately

### ALPHA REQUIRED CABLES









Alpha displays requires a separately available combined RayNet and power cable in order to function, which is <u>NOT</u> supplied with the product.

Depending on the system configuration, either one or both of the following cables will be required:

- 8-pin right angled power to RayNet and bare end power wires cable, available separately — used to supply power to the Alpha display directly from a 12 V or 24 V power source.
- 2. 8—pin right angled Alpha daisy chain cable, available separately used to supply power and data to additional performance displays connected (or "daisy-chained") in a series.

# ALPHA DISPLAYS PRICING (CAN)



PART NO.	UPC Code	DESCRIPTION	CAD MSRP
E70649	723193842720	Alpha 7" Performance Instrument Display	CAD 1,618.65
E70650	723193842737	Alpha 9" Performance Instrument Display	CAD 2,698.65
Alpha Performance Instruments Accessories			
A80752	723193859315	Power & Raynet Cable - Alpha Performance Instrument 1m	CAD 80.99
A80709	723193842768	Power & Raynet Cable - Alpha Performance Instrument 3m	CAD 107.99
A80753	723193859322	Power & Raynet Cable - Alpha Performance Instrument 5m	CAD 134.99
A80754	723193859339	Power & Raynet Cable - Alpha Performance Instrument 10m	CAD 202.49
A80710	723193842775	Daisy Chain Cable - Alpha Performance Instrument 0.3m	CAD 60.74
A80747	723193858912	Daisy Chain Cable - Alpha Performance Instrument 1.0m	CAD 101.24
A80711	723193842782	Alpha 7" Performance Instrument Single Mast Bracket - Landscape	CAD 195.74
A80712	723193842799	Alpha 7" Performance Instrument Dual Mast Bracket - Landscape	CAD 330.74
A80713	723193842805	Alpha 7" Performance Instrument Single Mast Bracket - Portrait	CAD 249.74
A80714	723193842812	Alpha 9" Performance Instrument Single Mast Bracket - Landscape	CAD 263.24
A80715	723193842829	Alpha 9" Performance Instrument Dual Mast Bracket - Landscape	CAD 398.24
A80716	723193842836	Alpha 9" Performance Instrument Single Mast Bracket - Portrait	CAD 317.24



#### SMART WIND INTRODUCTION





#### **Precision Wind Data for Everyone**

Professional-level wind system designed for leisure sailors.

The all-new wind sensor design delivers the precision you would expect from calibrated instrument.

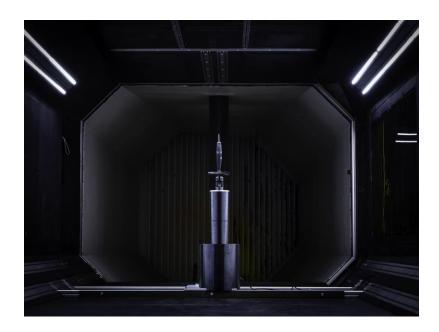
The integrated 3D motion sensor and Raymarine Smart Wind™ technology gives every skipper a new level of sailing intelligence.

The result is highly accurate calibrated wind speed and direction data to fuel your Raymarine sailing features.

Be a better sailor and have confidence in your decision making when it matters most.

# SMART WIND: TESTED FOR EXTREME ACCURACY





The wind transducer has been tuned and balanced through extensive wind tunnel testing to ensure the raw data being received at the mast head is as accurate as it can possibly be.



## **SMART WIND: 3D SENSOR**

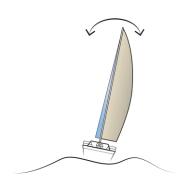


Integrated AHRS technology (3D sensor) accounts for wave action and vessel pitch and roll, automatically delivering improved true wind accuracy.

The 3D sensor and Smart Wind technology delivers superior wind measurement by compensating for mast twist and bend.

Smart Wind technology compensates for the effects of airflow and upwash against the sails, delivering stable and trusted true wind direction.











Roll

Pitch

Mast Twist

Upwash

# SMART WIND: SELF CALIBRATING





Raymarine Smart Wind technology delivers expert level accuracy with no complicated and expensive black-box processors or cumbersome calibration tables.



## SMART WIND: ROTATING MAST



#### **Rotating mast compatible**

Integrated AHRS intelligently compensates for rotating masts used on performance race yachts, catamarans, and trimarans.

This is something only previous possible with a wireless mast rotation sensor and gateway.



# SMART WIND: BE A BETTER SAILOR





Trusted, high-accuracy True Wind data combined with Alpha Displays and Axiom chartplotters let you sail smarter.



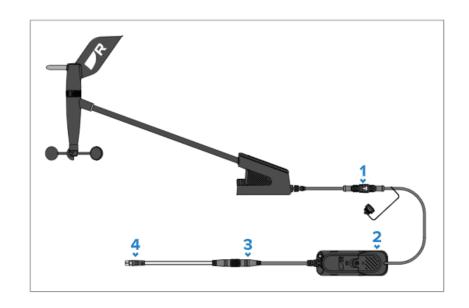
# SMART WIND: RSW-WIRED SYSTEM

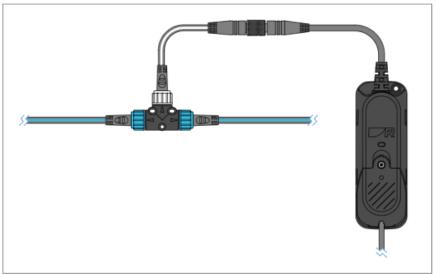




## SMART WIND: RSW-WIRED SYSTEM

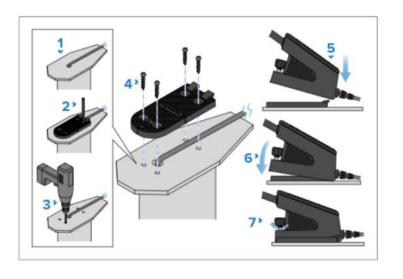


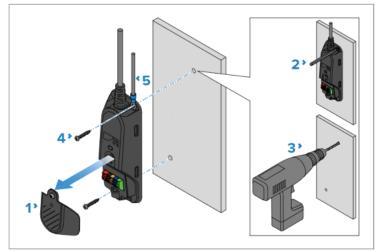


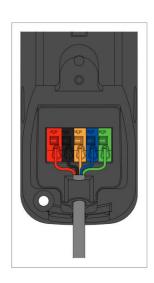


# SMART WIND: WHAT'S IN THE BOX



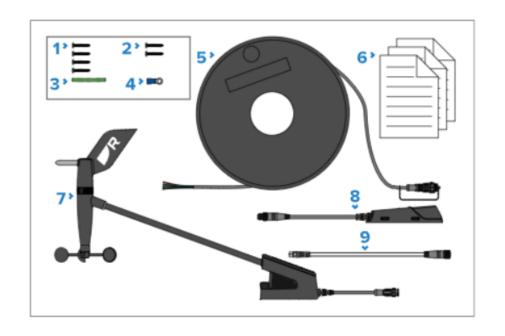






## SMART WIND: WHAT'S IN THE BOX





Item	Description			
1	No.10 $\times$ 3/4" self tapping screws $\times$ 4 (for mounting the wind transducer).			
2	No.7 x $3/4$ " self tapping screws x 2 (for mounting the gateway).			
3	40 mm (1.57 in) heat shrink tube (required to insulate ground wire when shortening the mast cable).			
4	Ring crimp terminal (required for additional ground connection when the gateway is not mounted on a metal surface).			
5	Mast cable, 30 m (98.43 ft) reel.			
6	Documentation.			
7	Wind transducer.			
8	Smart wind wired gateway.			
9	SeaTalkng® to DeviceNet adaptor cable, 120 mm (4.72 in).			

# **RSW WIRED: PRICING**





PART NO.	UPC Code	DESCRIPTION	CAD MSRP
RSW - Smart Wind Transducers			
E70670	723193846629	RSW - Smart Performance Wind Transducer, Short Arm with 30m Cable	CAD 1,147.49

## SMART WIND: RACE AND WIRELESS





Launching Q1 2024



**RSW-Wireless** 

# Raymarine

**AXIOM** 

NEW LIGHTHOUSE 4.5 SAILING FEATURES





#### **POLAR MANAGER**

a R

- Axiom now supports the direct import of Polar data using a CSV file via microSD
- Upload multiple polars for different sailing conditions
  - Inshore
  - Offshore
  - Short Handed
- Duplicate and rename existing polars
- Supports on-MFD manual adjustment of polar values for fine-tuning
- We will no longer accept polar submissions online from endconsumers
- Axiom's built-in polar database will continue to be updated periodically for OEM and fleet sailing customers only



#### STEER TO WIND FROM AXIOM

FR

Axiom support 2 new sailing steering options in its built-in autopilot controls.

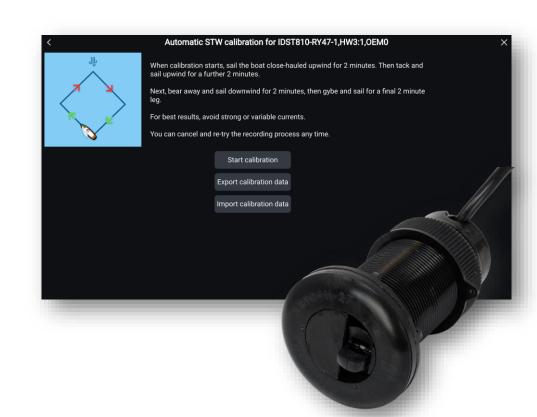
- Steer to Wind Angle Holds the boat at the preferred angle to the wind, using live data from the boat's wind transducer
- Steer to Target Angle Holds the boat at the target angle to the wind, based on the polar information uploaded into Axiom.



#### **AUTOMATIC SPEED CALIBRATION**



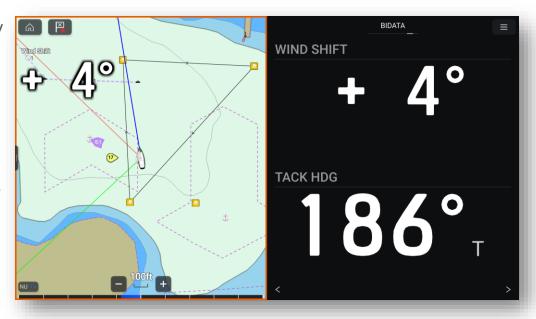
- Sophisticated, patented algorithm that removes the tack to tack, heel and linearity errors in a speed transducer
- Critical to ensure you get good True Wind Data
- Prompted setup through Axiom's Network tab. Touch the DST810 and select Calibrate



#### WIND SHIFT INDICATORS

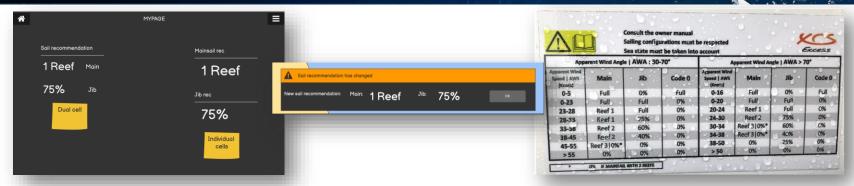


- Available as a horizontal bar display on the chart, sidebar data, floating data, or Dashboard data Item
- Value is broadcast across the network to Alpha instruments
- Adjustable averaging time
  - Linked to the value found in the Laylines settings in the Chart app
  - Long-press on the wind shift data item to reset as needed



#### SAIL RECOMMENDATION





- Import a sail plan and Axiom will make automatic recommendations based on the wind conditions
- Developed for cruising catamarans, charter/boat clubs and other applications where an inexperienced captain can benefit from a little more help on sail selection and reefing
- Recommendations appear as a programmable data item. Exceeding limits will prompt an on-screen warning
- CSV file imported through the Boat Settings menu

#### SAILING SIMULATOR IMPROVEMENTS



- Simulated wind now always blows from the same direction
- Simulated boat now automatically follows the laylines
- Touch Menu...Navigation...Tack boat to execute a tack maneuver
- Synchronized data. Show the integration across the Chart app, Dashboard app and connected Alpha displays with realistic values

