Zeus® S

Sailing chart plotter

- SAILING NAVIGATION REIMAGINED
- CRUISE & RACE
- MONOHULL & MULTIHULL
- TOTAL SYSTEM INTEGRATION
- 7, 9 & 12" DISPLAYS

B&G®

DESIGNED FOR SAILING

Navigation Systems | Sailing Chart plotter | Zeus® S

Zeus® S - Introduction

Introducing B&G's all-new B&G Zeus® S sailing chart plotter.

The Zeus® S has been designed with the cruiser, racer, monohull and multihull sailor in mind, providing a new intuitive user experience with user modes to easily get the best experience whilst sailing.

The bright, sunlight viewable, touch screen combined with the new C-MAP® X cartography enables new features and each sailing feature has been reimagined to be more capable and more intuitive.

All powered by the latest quad-core micro processors that allow Instrument, Radar, Sonar and Charting features to all work seamlessly together.

Zeus® S - Overview

1. 12V power supply - 4 pin with yellow ignition

2. Latest industrial-spec Quad-core micro processors

3. NMEA 2000® compliant interface (Micro-C)

4. Ethernet, 100mbps, waterproof

5. Dual Wi-Fi (802.11g) for Over The Air software upgrades and B&G App support

6. Waterproof Micro SD card slot

7. IP67 Environmental rating

8. USB Port (Zeus S 9 & 12)

9. Sonar – CHIRP / Single Frequency, StructureScan, ActiveImaging and TotalScan support

10. Internal GPS with sail-specific filtering and 10Hz position updates. GLONASS, Galileo, Beidou and QZSS constellation support for highly-accurate positioning worldwide

11. Ultra-bright IPS SolarMAX™ HD display

12. Touch screen for quick and simple operation. Includes touch-lock feature

B&G

Zeus® S - Screen options

Zeus® S is available in 7, 9 & 12" display options, utilising the latest SolarMaxHD™ IPS screen technology, optimised for wide viewing angles and in bright sunlight – even when wearing polarized sunglasses.

Zeus S 7

Zeus S 9

Zeus S 12

Zeus® S - C-MAP® Cartography

Compatible with the latest C-MAP® Discover™ X and Reveal™ X cartography providing up-to-date charting detail with a clean and modern look.

- Powerful chart overlays for
  - Radar
  - High Resolution Bathymetric contours (HRB)
  - Shaded Relief*
  - Satellite Imagery*

- Chart features include
  - Chart Safety Alerts
  - Tides and Currents
  - Night Mode
  - Chart Inspector tool
  - Subscription-free Auto-routing
  - Custom depth-shading

* C-MAP Reveal™ X only
Some features require additional system components (e.g. radar).

Clean and Modern Charts

Reveal Shaded Relief

Satellite Imagery
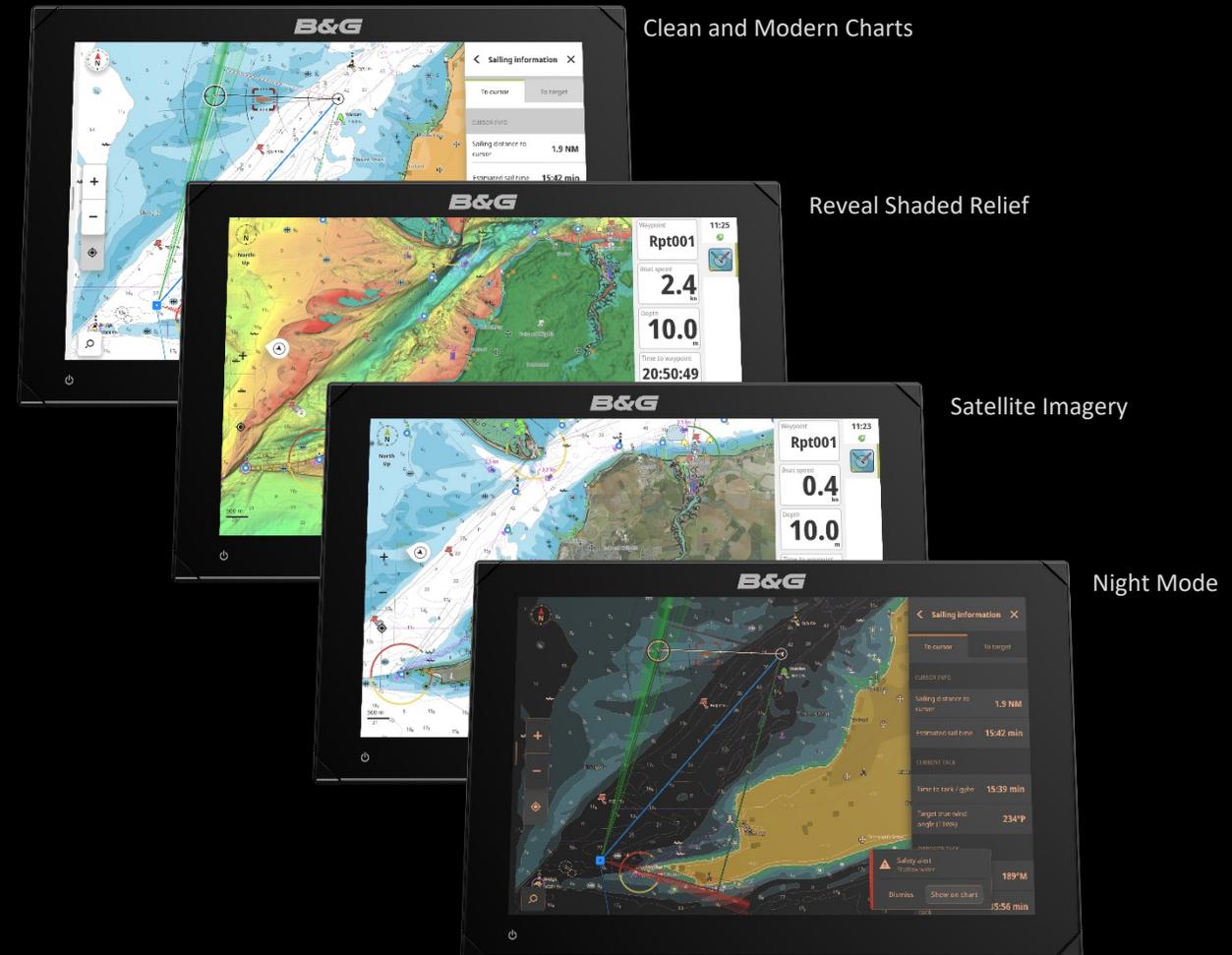
Night Mode

Zeus® S – Sailing Features

User Experience

- Simple Home screen with easy to find features
- Sailing modes – Cruise & Race, just the data you want
- Multihull & Monohull characterisation
- Night mode optimised for low light conditions
- Configurable to suit your requirements

Instruments

- Sailing dashboards
- Dashboard editor
- SailSteer™ gauge
- Tide Gauge
- Data Bar – prestart, upwind, reaching, downwind
- Triton® Edge integration
- Rotating mast support for wind and radar

Charting

- Clear C-MAP X charts
- Safety Alerts
- Laylines with wind history
- Sailing Time to Cursor position
- Chart orientations: Wind up; Target up; Start Line up

Racing

- Quick race entry
- Race overview
- Race timer
- GPS start timer
- Start line tools

Zeus® S – Cruise mode
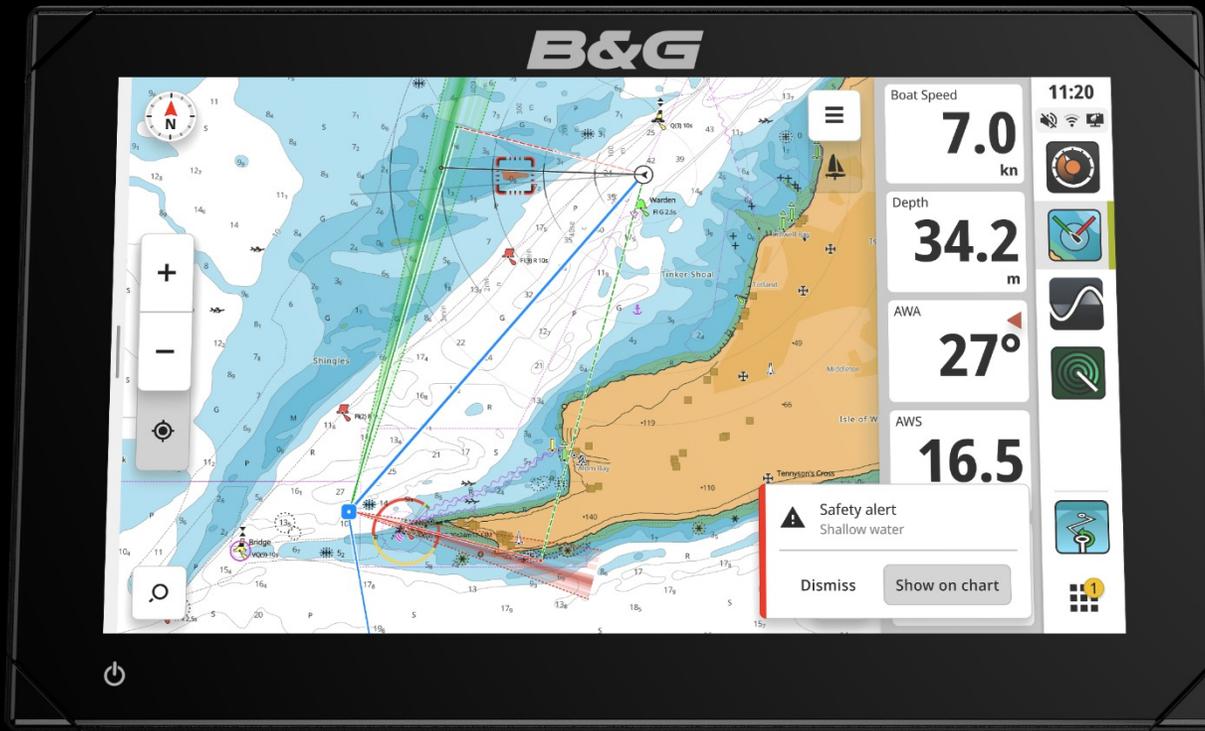
Cruise Mode enabled: showing laylines and chart safety alerts

Cruise Mode inhibits race features for a clean display – the right tools at the right time

- Chart Safety Alerts
- Sailing Laylines
- SailingTime & Distance to Cursor
- Subscription-free auto routing
- Tides & Currents
- Chart Inspector

Zeus® S – Race mode

Race Mode enables additional features for racing – the right tools at the right time

- Start Line
- Race Timer
- Quick Route Entry
- Race Overview

Race Mode enabled: showing start line with laylines, line bias, range-rings and Race Timer controls

Zeus® S - Sailing modes

- Easily switch between Cruise or Race sailing modes

- Race mode enables additional features:
  - Quick race route entry
  - Port / Starboard waypoint rounding indicators
  - Race leg(s) overview
  - Start line chart overlay with:
    - Set the start line
    - Apply GPS offset for bow position
    - Bias indicator
    - Tide and wind indicators
  - Race timer
    - Countdown timer
    - Start/Stop/Sync/Reset
    - Countdown to GPS start time
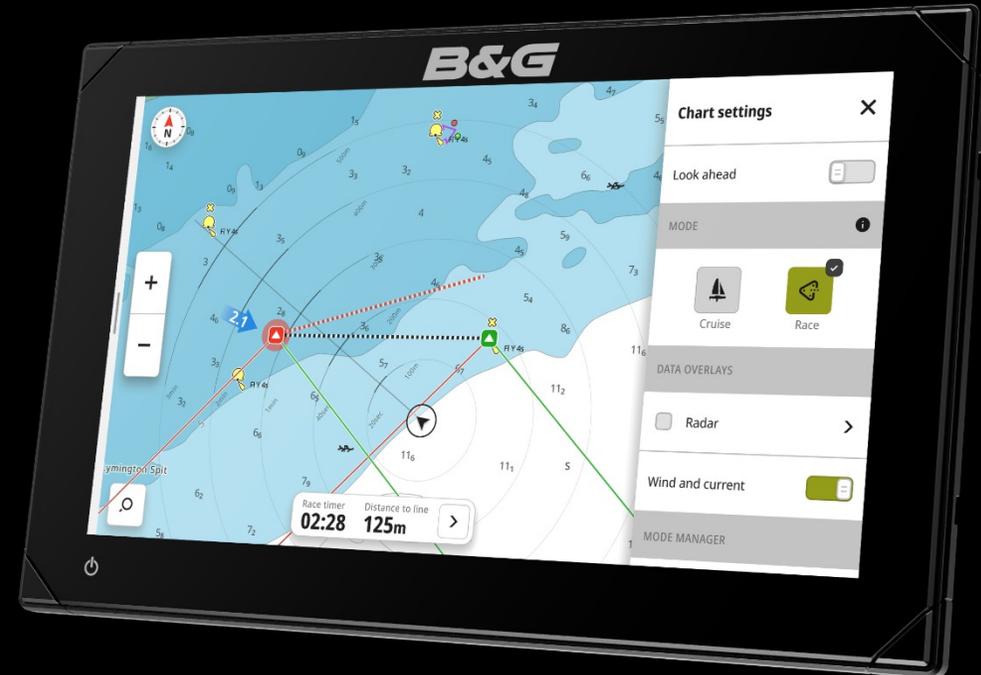
Zeus® S - Safety Alerts

The NEW **Safety Alerts** feature included with Zeus S can constantly monitor your course for dangerous chart objects - no matter what your speed, zoom level or view. Whether it's a buoy, shallow water, rocks or land - Zeus S can warn you in advance.

- C-MAP® Discover™ X and Reveal™ X charts provide detailed chart data - available at all times to Safety Alert

- Alerts provide the sailor with awareness of potentially dangerous charted objects above and below the waterline

- Automatically identify charted objects which are of a concern, warning or critical based upon their relative time and distance

- 'Harbor' and 'Offshore' modes allow Zeus S to automatically change the time and range sensitivity based on use

- Ideal for use in unfamiliar waters or at night when visibility is reduced to identify dangerous objects.
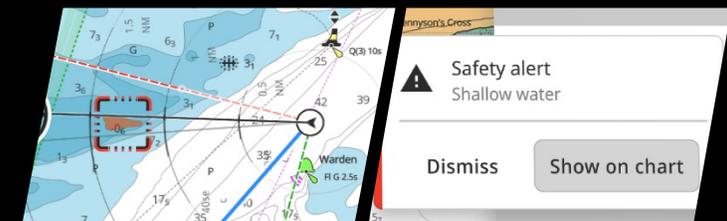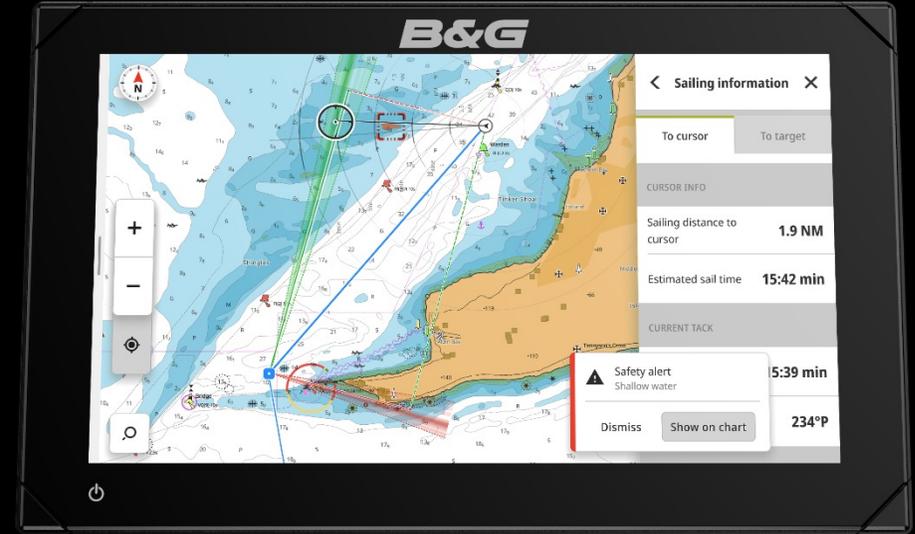
Safety Alerts feature requires a compatible C-MAP® Discover X or Reveal X chart covering the area around the vessel.

Zeus® S - Quick Race Entry

- Quickly create a race route from sorted list of waypoints
- Easily add port and starboard rounding indicators
- Intuitively add, remove or reorder a race route
- Use the Race overview tool to brief your race crew with expected wind angles and estimated sailing time for each race leg to aid decision making and sail selection
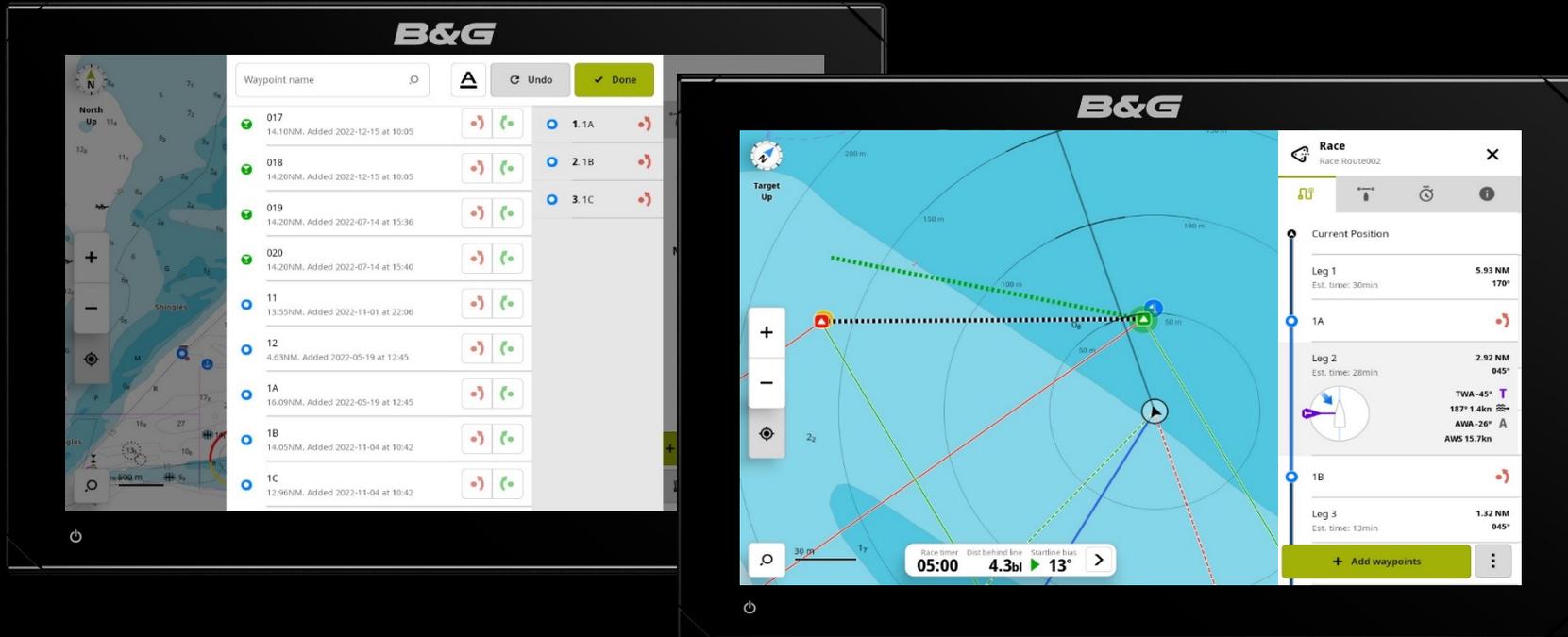
Zeus® S - Start line

The powerful Zeus Start Line tool is now chart-based to allow navigational awareness during the start procedure

- Start line view, including laylines, favoured end, tide set & rate and True Wind Direction
- Chart dynamically orientates and zooms to ensure boat and start line are in view
- Calculations are based on the yacht's Bow Position via an offset distance for the GPS
- Zeus S Internal GPS (or optional external options) provide precise position 10 times per second
- Simple setup - set the port and starboard start line end positions via a button press ("ping"), waypoint or cursor
- Easily return to view the start line on the chart via an edge marker
- Zeus S automatically captures your distance to line when the race timer reaches zero
- The following start line data is calculated and displayed:
    - Distance behind line (boat lengths or meters)
    - Distance to line
    - Distance to port & starboard ends
    - Start line bias to True Wind Direction
    - Bias advantage
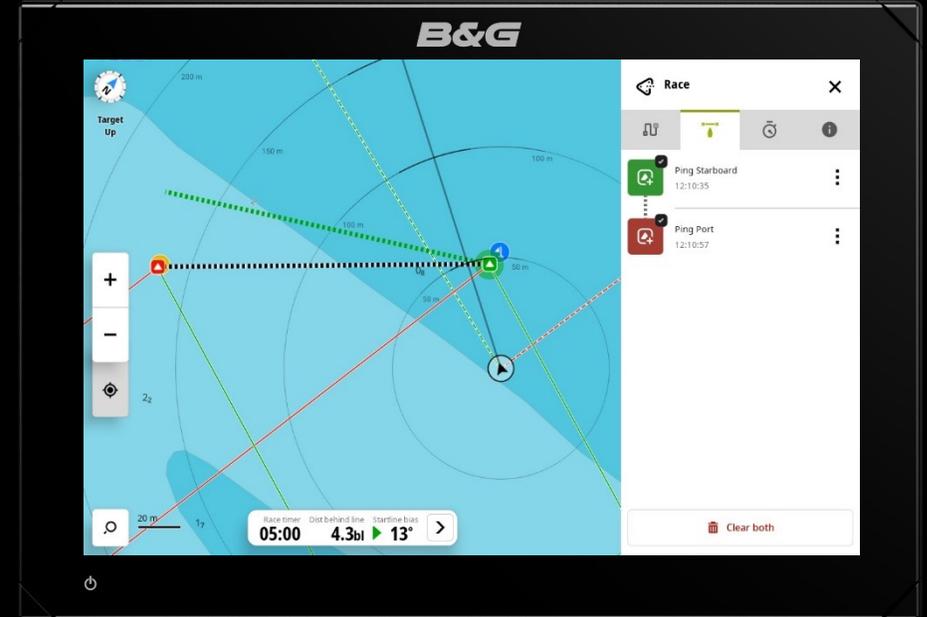
Zeus® S - Race timer

Race Timer provides a flexible and integrated tool for starting and monitoring race duration

- Quickly adjust the race timer start value

- NEW Set the race timer to countdown to a GPS based start time. e.g. 1900h

- Race timer control is available from networked devices

- Start, Stop, Sync [to nearest minute] and Reset functions

- Automatically starts a stopwatch when the race timer reaches zero to track race duration.

Zeus® S - Chart Orientation

Easily rotate the chart to aid understanding and make better decisions for your route or race course

Single touch rotates between:

- North up
- Heading up
- Course up (Course over Ground)
- NEW Target up (Waypoint)
- NEW Wind up (True Wind Direction)
- NEW Start line up

Target up

Wind up

Startline

Zeus® S - Laylines

B&G pioneered laylines in chart plotters with the original Zeus®. Zeus S laylines provide a powerful decision aiding tool.

- Overlay your target sailing angles, upwind or downwind, to your destination on the chart

- NEW Enable wind history to show a wind shift heat map, which intensifies the colours over time to show the history of true wind direction

- NEW Mini-Inspect (short press) a layline to gain detailed target sailing angles, speed, SailingTime and distances

- NEW Full-Inspect provides detailed sailing information on current and opposite tacks

- Apply tidal correction to layline calculations

- Display laylines using actual data or input targets.
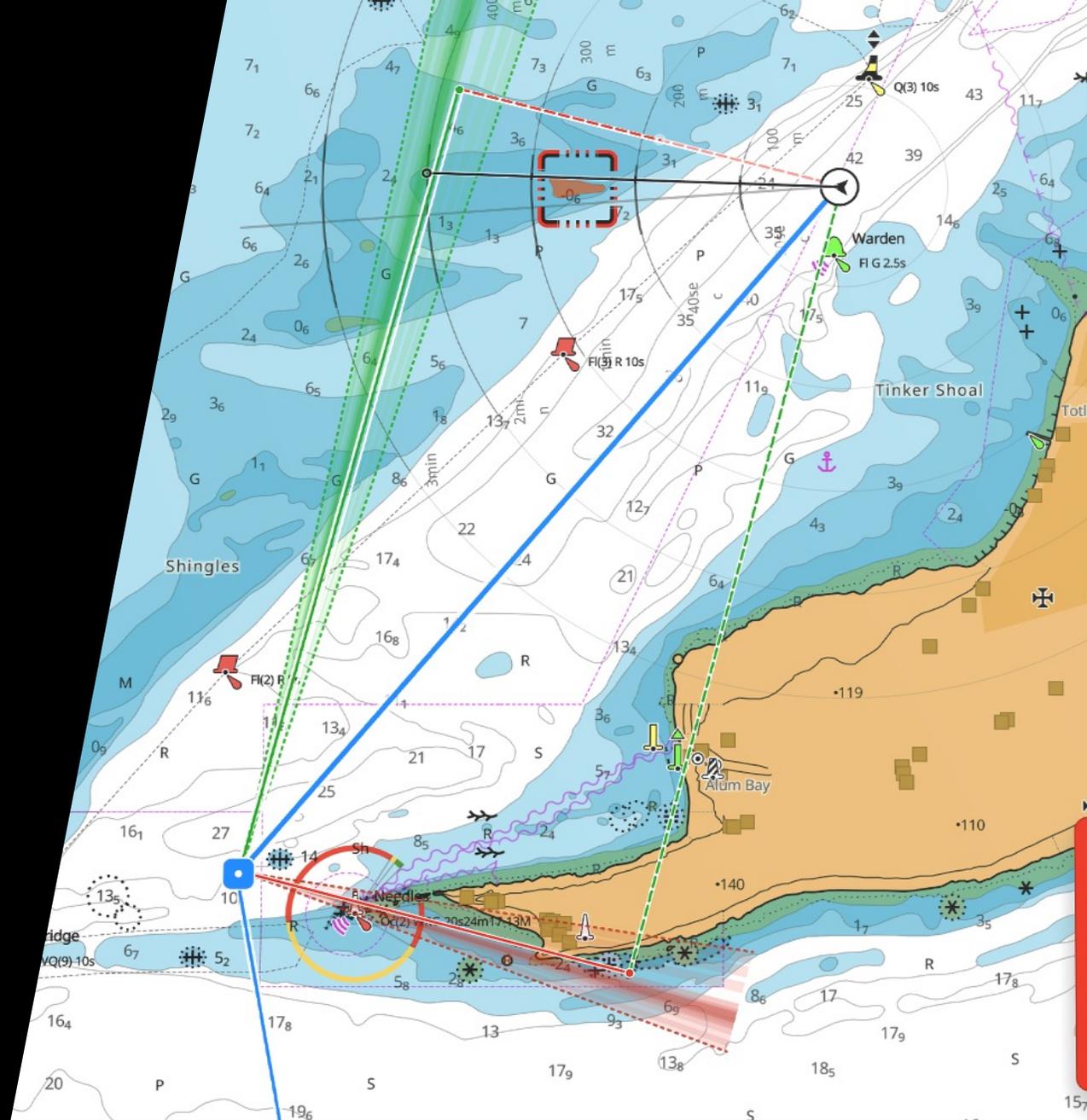
Zeus® S - Time to cursor

NEW Have you ever wanted to know how long it will take to sail to a location on the chart or you need to tell your race crew how long to go ?

Simply place the cursor anywhere on the chart to show an estimated sailing time and distance information to the cursor position.

Ideal, when you're navigating to a waypoint and you need to know sailing time to a secondary position.
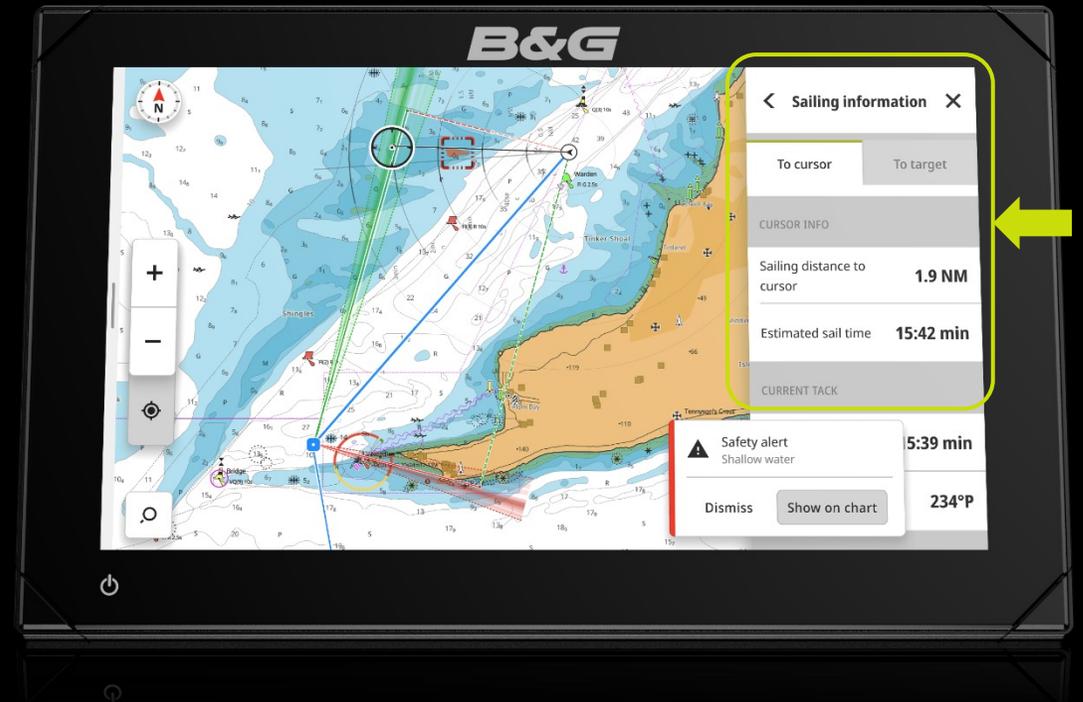
Zeus® S - Tide Gauge

Need to know the state of tide quickly? Zeus S provides at-a-glance tidal data

- Graphically see a tidal histogram including current time indication in the instrument data bar

- Choose between automatic selection of the closest tidal station, or select a specific station

- More detailed tidal data is available via the chart icons

Zeus® S - Instruments

Clear and easy to read instrument dashboards

- Quickly swipe between dashboards

- Create your own design using the dashboard editor.
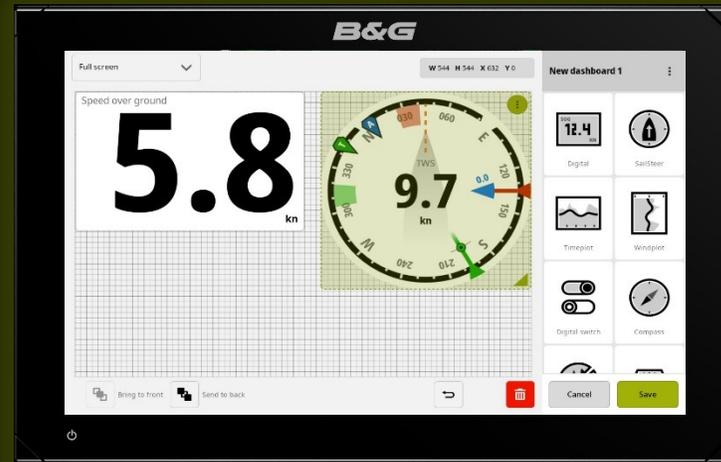
Zeus® S - Wind plot

Dedicated wind charts for monitoring wind history and assessing trends

User configurable options include:

- Show Trend lines
- Show tack colour (port / starboard)
- Show Average
- Min, Max and current value
- Time range 1,5,10,30 or 60 minutes

Zeus® S – B&G Companion App

- Download the latest B&G App
- Plan & review your waypoints and routes using the latest C-Map® charts
- Seamlessly synchronise waypoints and routes between products
- Review your sailing data from Triton® Edge
- Register new products and access support information
- Complete product software updates
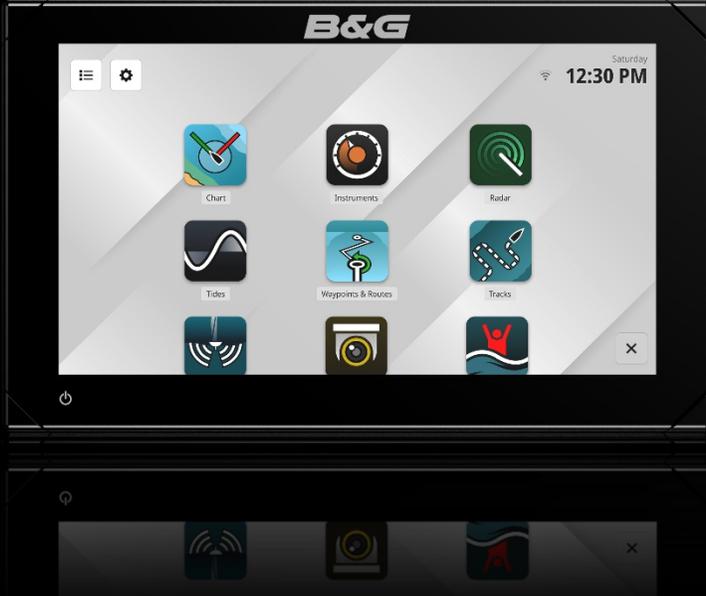
Triton® Edge Sailing Processor

Zeus® S - Triton Edge Integration

Adding a Triton® Edge Sailing processor to your system provides advanced wind, calibration and data recording. Zeus S provides a seamless integration with Triton Edge.

- Display all B&G NMEA2000® performance sailing data

- Seamlessly access the web interface on Triton™ Edge
  - Control and system setup
  - Perform advanced calibration
  - Control data recording

- Connect via Ethernet or Wi-Fi

Triton Edge
Sailing Processor
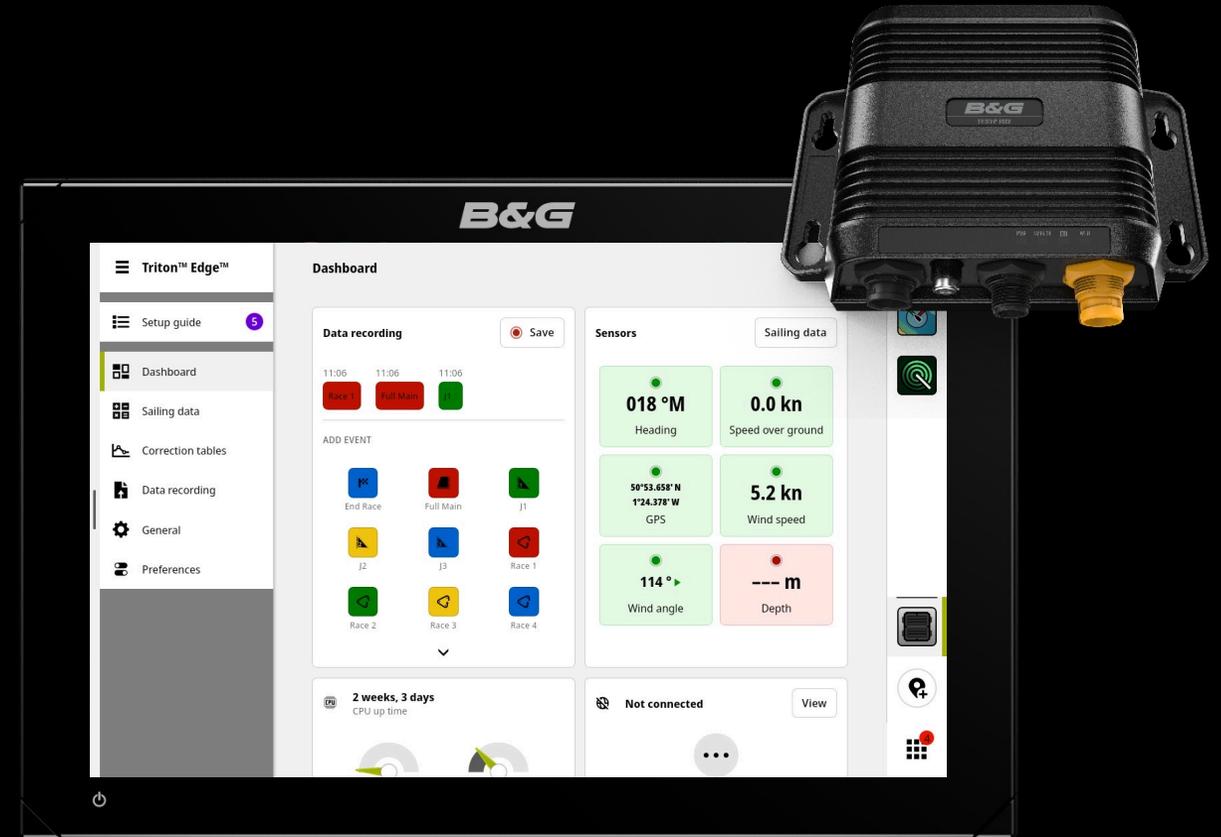
Triton Edge interface via Zeus S display

Zeus® S – Feature Summary

Chart

- Sailing Modes - Cruise & Race
- Safety Alerts
- Laylines
- Start line
- Wind up mode
- Target up mode
- Quick race route builder
- Race overview
- Sailing time and distance to cursor

Instruments

- User configurable dashboard(s)
- Swipe left/right to change dashboards
- Instrument data-bar
- Data bar tidal gauge feature

Radar

- Compatible with Halo 20, 20+, 24+ radar with velocity track & dual radar features
- Improved dock and on the water commissioning process
- Compatible with 4G broadband

Sonar

- Sonar support
- Traditional Sonar
- CHIRP Sonar
- DownScan
- SideScan

Zeus® S – Feature Summary

Waypoints & Routes

- Manage Waypoints & Routes
- Sync with user account via App

Tracks

- Review sailing tracks
- Sync with user account via App

Tides

- Access to tide and current information
- Quick tide view in data bar

IP Camera

- ONVIF IP Camera support
- Supports Navico IPCAM-1
- Picture in Picture

Triton™ Edge

- Integrates directly with Triton™ Edge Sailing processor
- Seamless access to the Triton™ Edge web interface

Zeus® S - NMEA2000® System example

Minimum Requirements for Sailing Features: GPS [integrated or external], Heading, Boat Speed & Wind


NMEA2000
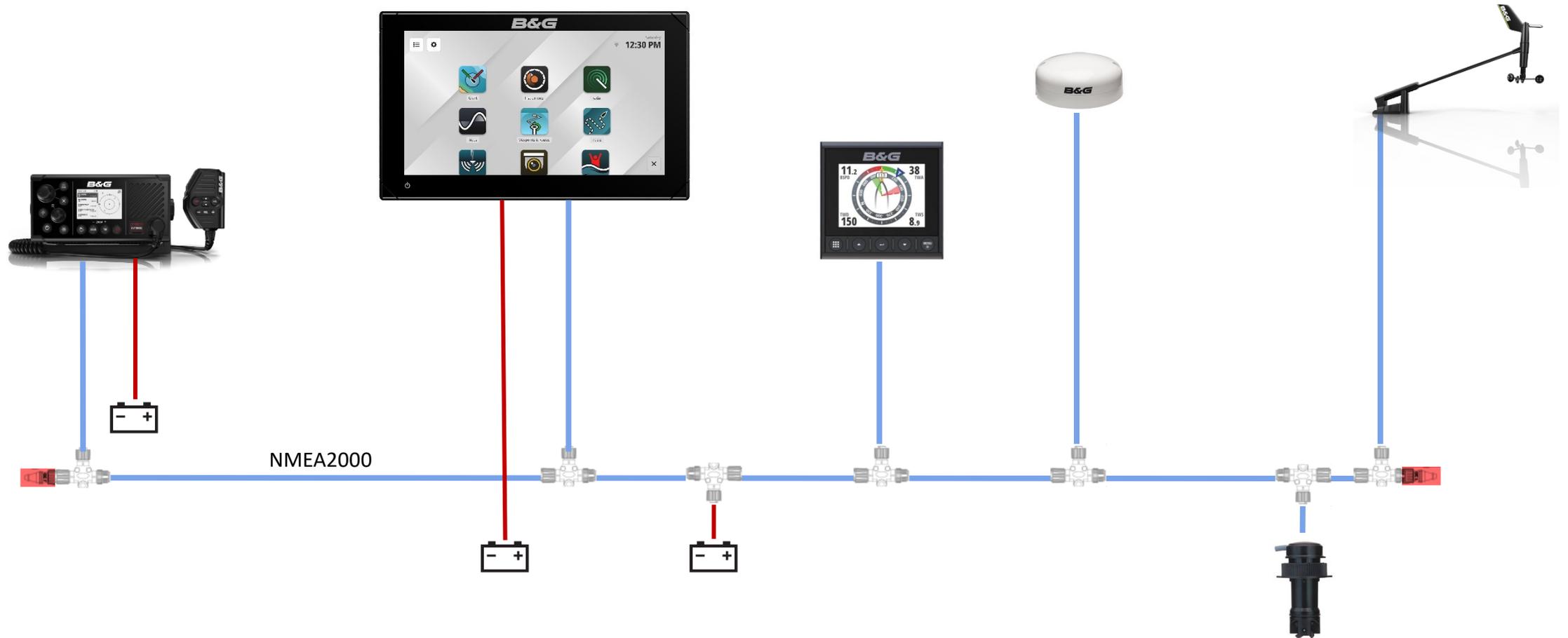
System connections are illustrative only.

Zeus® S – Dual display system example

Minimum Requirements for Sailing Features: GPS [integrated or external], Heading, Boat Speed & Wind

Network sharing:
- C-Map® Discover® X and Reveal® X Charts
- Waypoints & Routes
- Radar

Ethernet
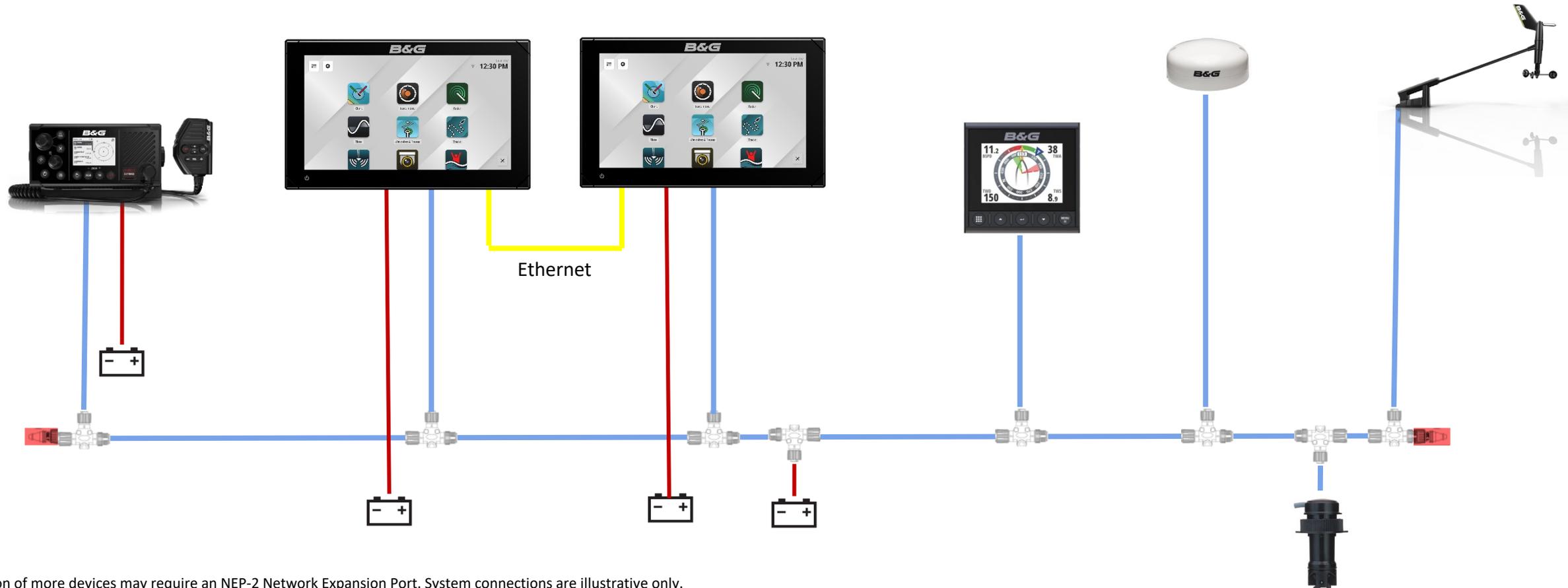
Connection of more devices may require an NEP-2 Network Expansion Port. System connections are illustrative only.

What's in the box

1. Zeus S™ display unit

2. Panel mounting kit

3. Sun Cover

4. Corner clips

5. Power Cable (2.0m)

6. Fuse holder and fuse

7. Installation guide and quick star documentation

8. Mounting U-bracket
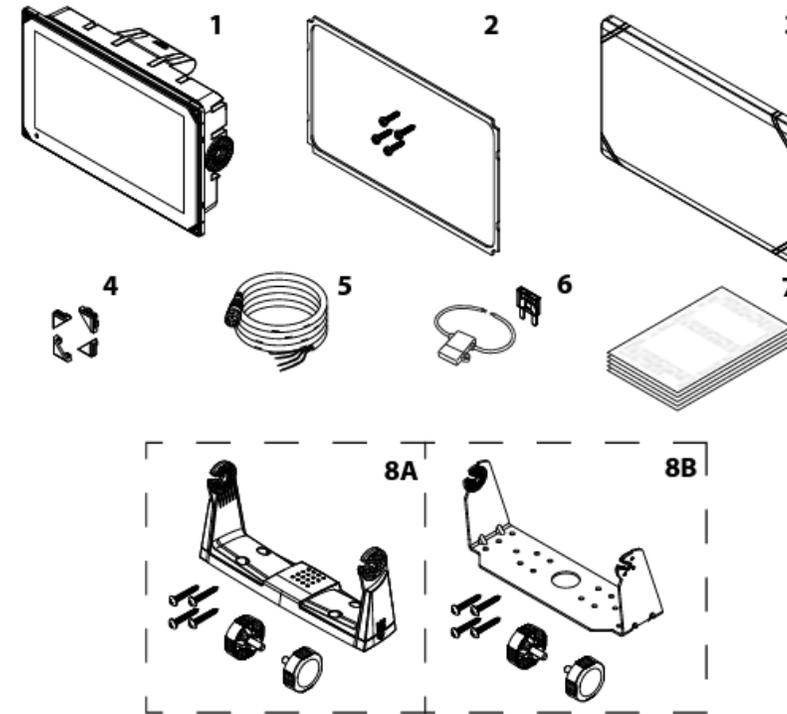
Note

NMEA2000 and Ethernet cables are not included and should be ordered separately if required

Optional Accessories

|	
Ethernet Cable 1.8m / 6'	000-0127-001
Ethernet Cable 4.5m / 15'	000-11246-001
Ethernet Cable 7.6m / 25'	000-0127-30

Zeus® S 7 – Dimensional Drawing
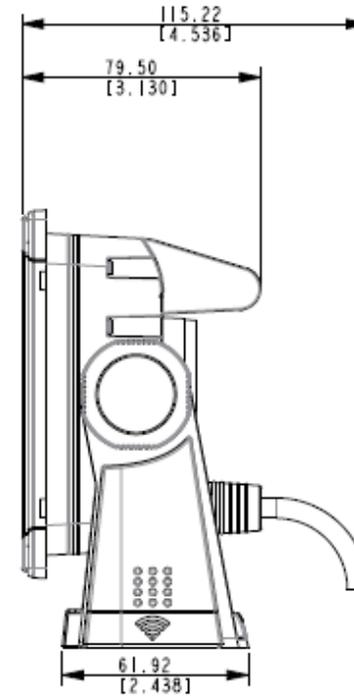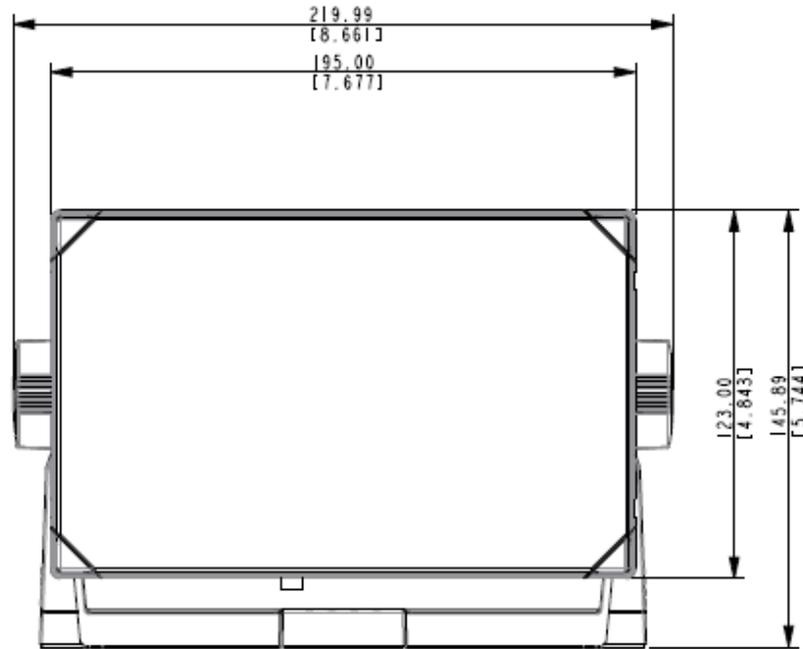
Zeus® S 9 – Dimensional Drawing
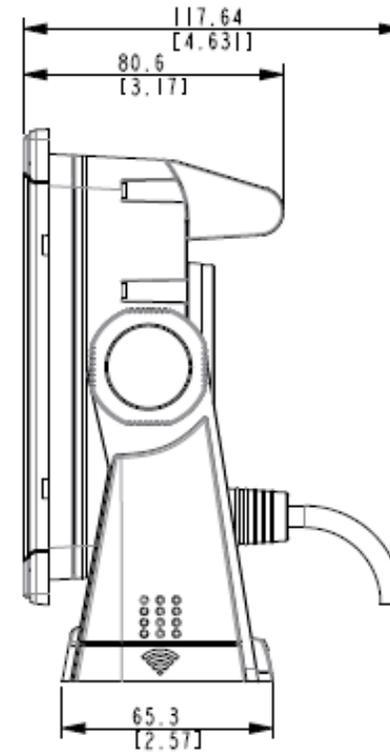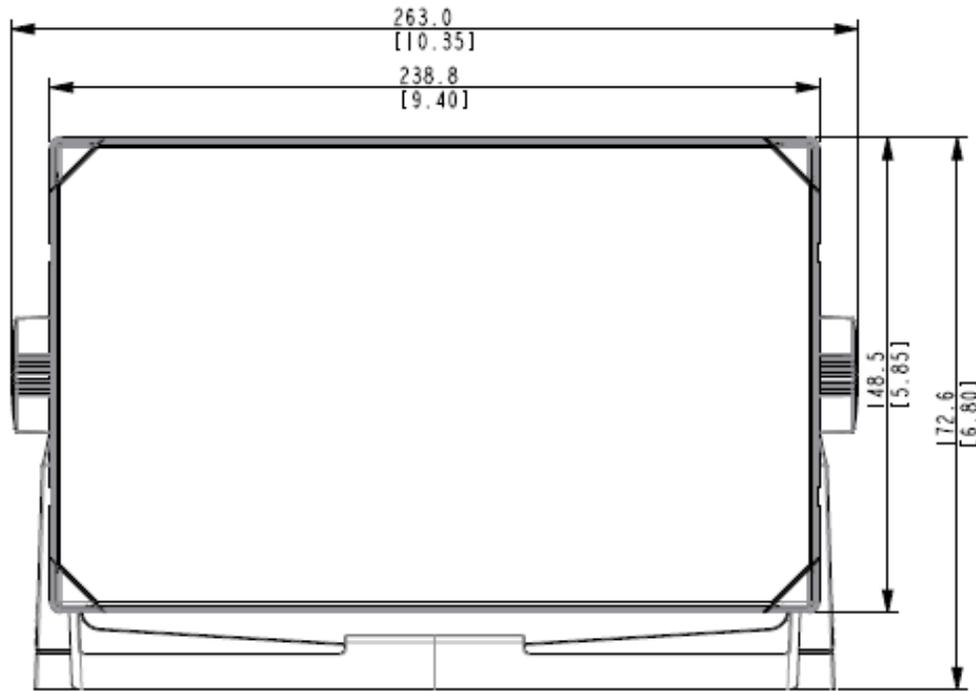
Zeus® S 12 – Dimensional Drawing
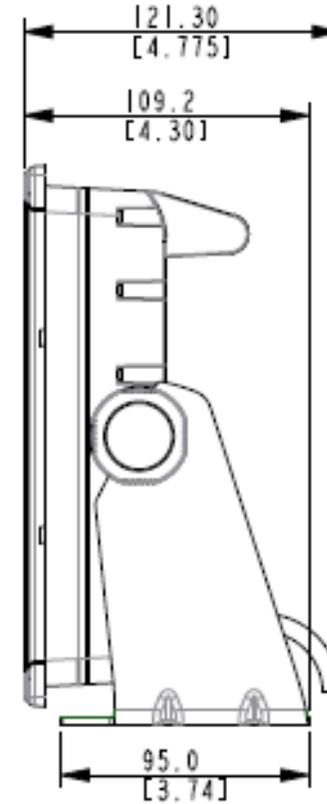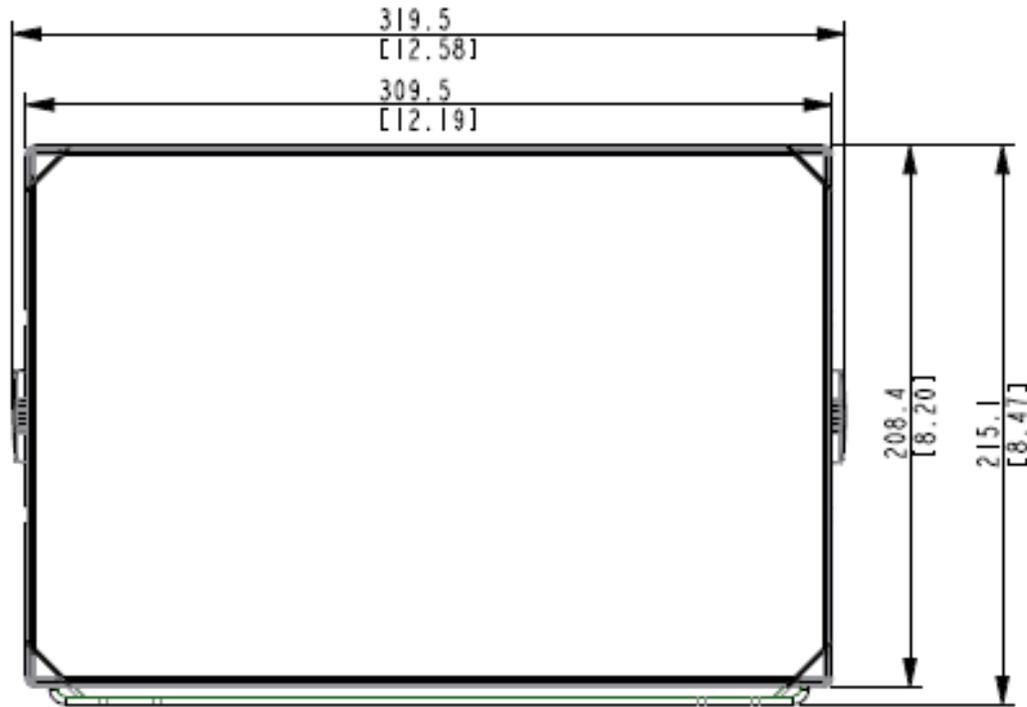
Zeus® S - Technical Specification

Environmental	
Operating temperature	−15 to 55ºC (5 to 131ºF)
Storage temperature	−40 to 85ºC (−40 to 185ºF)
Waterproof rating	IPX6; IPX7

Electrical	
Supply voltage	12V DC nominal (10-17V DC)

Physical	
Weight	0.8Kg (Zeus S 7) 1.2Kg (Zeus S 9) 2.2Kg (Zeus S 12)
Compass Safe Distance	0.5m (1.6')

Interface/Connectivity	
NMEA 2000®	1x Micro-C
Ethernet	1x Navico 5-pin yellow
Wi-Fi	802.11 b/g; Internal antenna

Display	
Viewing Angles	85° (top, bottom, left and right)
Screen brightness	>1200 nits
Display resolution	1024 x 600 px (Zeus S 7) 1280 x 720 px (Zeus S 9) 1280 x 800 px (Zeus S 12)

NEW ZEUS® S
SAILING, SIMPLIFIED

B&G®