ELEMENT-S

NAVIGATION DISPLAYS

The Element-S series of navigation displays gives you the freedom to enjoy the open waters—select your destination and let Element's fast and accurate 10Hz GPS/GNSS lead the way. Engineered for simplicity and affordable performance, Element-S will quickly become your trusted cruising companion. A quad-core processor offers responsive performance and Element's all-weather, sunlight viewable displays deliver chart and navigation data in beautiful color. Element's simple and straightforward LightHouse Sport operating system lets you navigate with confidence. Once underway, Element-S will keep you on course with a smart list of user-friendly features, such as AIS target overlays, autopilot integration, and sailing instruments displays.

A TRUSTED CRUISING COMPANION
Easy planning and GPS navigation with your favorite charts.

- Support for Raymarine LightHouse™ charts, Navionics, and C-MAP
- Color-coded AIS overlays help you navigate congested waterways with improved awareness
- Built-in High CHIRP sonar for depth and bottom contour imaging
- Map uncharted areas with Raymarine RealBathy™ personal sonar mapping
- Navigate safer with an optional Quantum™ wireless CHIRP radar
- Connect with NMEA2000-compatible AIS, autopilot, sailing instruments, engines, tanks, and VHF

SIMPLE AND STRAIGHTFORWARD
Element's LightHouse Sport OS is designed for boaters that like to keep things simple.

- From sailing to power cruising to fishing, the LightHouse Sport OS is easy to customize to your type of boating
- An oversized waypoint key for quick and easy marking of your favorite locations
- Three user-programmable quick keys to access your favorite pages with one button push
- Live menus let you customize charts while seeing the navigation display change in real time

SUPERIOR PERFORMANCE
Enjoy legendary Raymarine display and navigation technology at an affordable price.

- 7, 9, and 12 inch super bright display for all weather conditions
- Category-leading quad-core processor delivers fast chart redraw and responsive performance
- Fast and accurate 10hz GPS/GNSS sensor
- Rugged design and backed by Raymarine's three-year warranty (product registration required)

ELEMENT-S SPECIFICATIONS

Display	Element 7 S	Element 9 S	Element 12 S
Display Size	7.0" Optically-Bonded LCD	9.0" Optically-Bonded LCD	12.0" Optically-Bonded LCD
Display Resolution	800 x 480 WVGA	800 x 480 WVGA	1280 x 800 WXGA
Display Type	Non-Touch		
Brightness	1,500 nits		
Physical			
Overall Dimensions (W x H x D)	240 x 135 x 62mm	287 x 161 x 62mm	357 x 215 x 62mm
	(9.5 x 5.3 x 2.4 inches)	(11.3 x 6.3 x 2.4 inches)	(14.1 x 8.5 x 2.4 inches)
Product Weight (lbs)	3.0	5.0	6.5
Water Ingress Protection	IPx6 and IPx7		
Operating Temperature Range	-25°C to + 55°C (-13°F to 131°F)		
Storage temperature range	-30°C to +70°C (-22°F to 158°F)		
Electrical			
Voltage	12V DC (8V to 16V DC)		
Power Consumption (max 12V DC)	15 Watts	20 Watts	25 Watts
GPS			
GPS/GNSS	10Hz built-in GPS / GLONASS		
Sonar			
Sonar Type	Single channel High CHIRP Sonar with 9 pin connector. Supports CPT-S transom and thru-hull transducers		
Sonar Depth	CHIRP Sonar = 274m (900 feet)		
Radar			
Compatibility	Quantum wireless CHIRP compatible. Wi-FI only connection		
Doppler Radar	No		
MARPA	No		
Connectivity			
NMEA2000	1 x NMEA2000 port (DeviceNet microC)		
Supported NMEA2000 Networking	INPUT: NMEA2000 Compatible Engines (Max 2)	NMEA2000 Compatible Tank Sensors (Max 4)	Heading Sensor (for Chart Stabilization)	AIS receiver. OUTPUT: GPS (for VHF Distress and DSC). Waypoint, Routes, and XTE for Autopilot. Waypoint and Route sharing between Element displays		
Wi-Fi	WiFi - 802.11 b / g / n		
Cartography	Raymarine LightHouse NC2, Navionics, C-MAP Essentials, C-MAP 4D MAX+, and compatible with all charts listed on Raymarine Chart Store.		
Sonar Mapping	Raymarine RealBathy and Navionics SonarChart Live		
Tides & Currents	Requires LightHouse NC2, Navionics or C-MAP		

Specifications are subject to change without notice. For the most up-to-date specs, go to **www.raymarine.com**

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