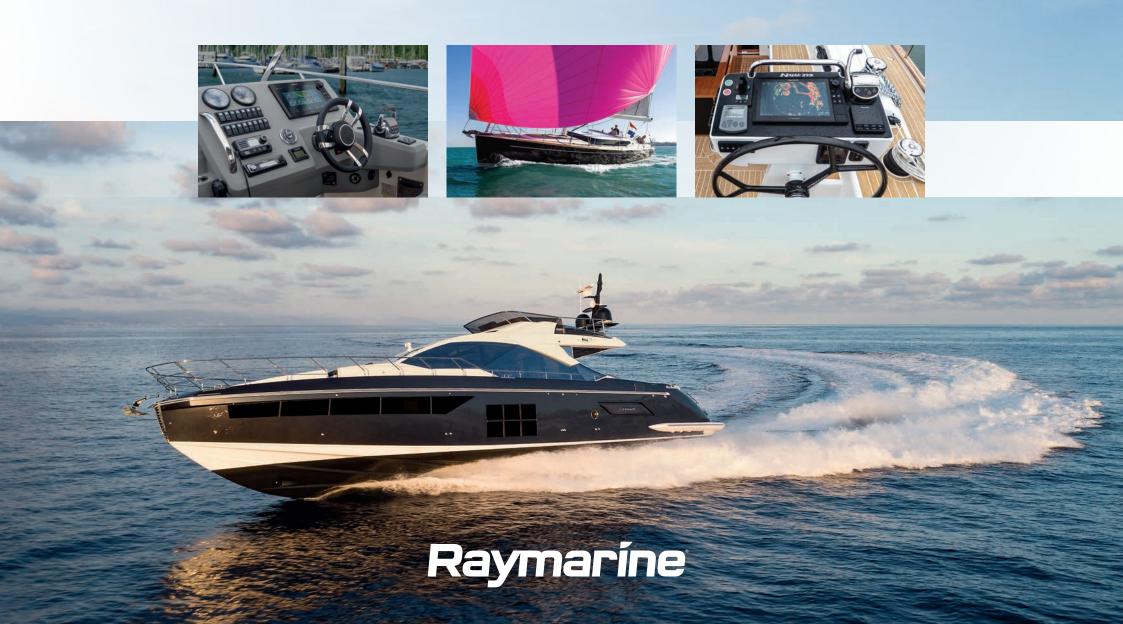
2019

MARINE ELECTRONICS FOR SAILING AND CRUISING





WELCOME TO THE WORLD OF RAYMARINE

Raymarine products are engineered to deliver the very best in visual navigation information and with a legacy of marine technology spanning over 80 years, we are renowned today for ease-of-use, rugged design, and reliability.

At Raymarine, we are constantly innovating to deliver high-performance sensors and intelligent navigation systems so your time on the water is stress-free and fun. We are committed to you with an industry-leading warranty and worldwide service network. Whether you fish, sail, or cruise you can get underway with the confidence of Raymarine on board.

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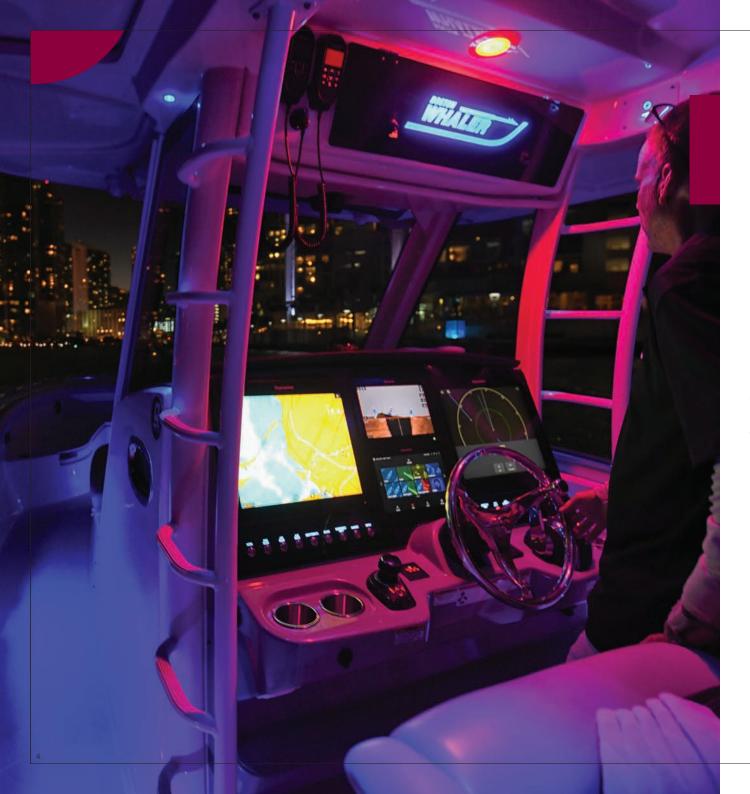
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LIGHTHOUSE 3 OPERATING SYSTEM POWERFUL AND INTUITIVE

The easy-to-use operating system inside every Raymarine multifunction display, LightHouse™ puts you in command with a fluid touch-screen or HybridTouch™ user experience. LightHouse lets you navigate with the best charts and makes navigating as simple as using a smartphone.

LIGHTHOUSE 3





You Are In Command

LightHouse 3 is fast, fluid, and easy to learn. The uncluttered interface is easily personalised for your style of navigating. Get underway with smartphone-like touchscreen experience or take command with HybridTouch keypad and touchscreen control combined.



Expandable

Expand any LightHouse 3 OS based display with powerful sensors, including Quantum radar, CHIRP sonar modules, and FLIR thermal night vision cameras. SeaTalk^{NG} and NMEA 2000 connectivity enable engines displays, instruments, and Evolution autopilot integration. Standard Wi-Fi and Bluetooth allows connection to Raymarine apps, accessories and more.



Simplified Networking

Axiom, Axiom Pro and Axiom XL all run the LightHouse 3 operating system, allowing you to create navigation systems with any Axiom display combination. Connect up to 10 Axiom displays or integrate with eS and gS Series by upgrading to LightHouse 3 for free.



Beautiful Data

Drag and drop databoxes anywhere on screen. Choose from 4 different size options and up to 14 different data types. Simply swipe the side of the display to reveal the Side Bar data display or launch the Dashboard app for intuitive instrument and engine data displays.



LIGHTHOUSE 3 OPERATING

SYSTEM POWERFUL AND INTUITIVE

The LightHouse 3 operating system powers Axiom, Axiom Pro, and Axiom XL multifunction displays. Previous generation Raymarine eS Series and gS Series can also upgrade to LightHouse 3 for free. Some advanced LightHouse 3 features like ClearCruise AR, Axiom UAV, and LightHouse Apps are exclusive to Axiom multifunction displays. Visit raymarine.com/lighthouse to learn more and stay abreast of the latest LightHouse 3 feature updates.

LIGHTHOUSE 3



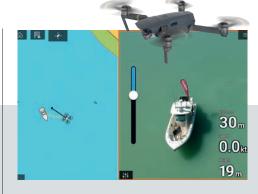






Personalisation

The LightHouse 3 home screen offers bold and simple app icons. Customise the home screen with your favourite apps. LightHouse 3 User Profiles saves yours and other crew member's personal home screens and configuration preferences.



Axiom UAV – Your Eye in the Sky

Experience the power of aerial imaging on board with Axiom and the DJI Mavic Pro drone. LightHouse 3 offers a seamless UAV control experience with convenient touch-to-fly options and automatic return to boat capabilities. Free your drone's video from your tiny smartphone with Axiom's large, sunlight viewable display.



Augmented Reality

ClearCruise™ AR brings enhanced on-water perception to the Axiom line. HD video overlaid with dynamic graphics delivers instant recognition of navigation aids, AIS contacts, and nearby waypoints. Augmented reality makes it easy to understand complex navigation situations and make smarter decisions on the water.



LightHouse Apps

LightHouse Apps is Raymarine's expanding library of applications for Axiom multifunction displays. Enjoy entertainment apps like Netflix and Spotify or connect with on board systems like Lumishore vessel lighting and Seakeeper gyro systems. LightHouse apps also keep you connected with support for Mazu satellite communications and Theyr weather.



MULTIFUNCTION DISPLAYS AND SONAR/GPS

Raymarine navigation displays put you in command with the speed and simplicity of our LightHouse operating systems. Our Element series offer premium performance for every boater, and our award-winning Axiom® line brings the full power of Raymarine multifunction navigation into a single touch display or networked system.



1. Element Sonar/GPS Displays

Element combines lifelike HyperVision™ sonar imaging with quad core speed and simplicity of the LightHouse Sport OS.

Display Options

Element 7	7.0" (800 × 480)
Element 9	9.0" (800 x 480)
Element 12	12.1" (1280 x 800)

2. Axiom Touchscreen MFDs

Award winning Axiom display feature RealVision* 3D sonar, powerful expansion capabilities, and intuitive LightHouse 3 OS touch screen control.

Display Options

Axiom 7	7.0" (800 x 480)
Axiom 9	9.0" (800 x 480)
Axiom 12	12.1" (1280 x 800)

3. Axiom Pro HybridTouch MFDs

Axiom Pro is the MFD for captains that want it all. HybridTouch™ control, 1kW sonar, RealVision 3D and the power of LightHouse 3 OS.

Display Options

Axiom Pro 9	9.0" (1280 x 720)
Axiom Pro 12	12.1" (1280 x 800)
Axiom Pro 16	15.6" (1920 x 1080)

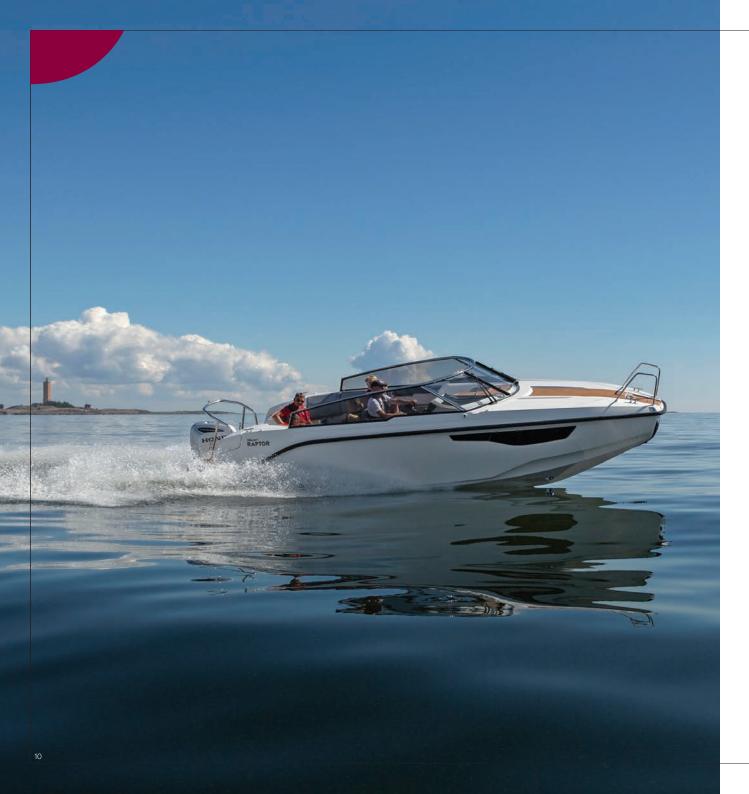
4. Axiom XL Glass Bridge MFDs

Experience the simplicity and power of LightHouse 3 on the big screen. Flagship glass bridge displays, ready for your yacht or ocean cruiser.

Display Options

Axiom XL 16	15.6" (1920 x 1080)
Axiom XL 19	18.5" (1920 x 1080)
Axiom XL 22	21.5" (1920 x 1080)
Axiom XL 24	24.0" (1920 x 1200)

c



ELEMENT SONAR/ GPS WITH HYPERVISION SONAR IMAGING

Built for boaters and fisherman that want to be one step ahead of the game, Element delivers the sharpest view of the underwater world with HyperVision™ 1.2 megahertz super high-resolution sonar. Available in 7, 9, or 12-inch display sizes, Element brings Raymarine quality and performance into a simple and easy-to-use chartplotter/sonar combination display.

ELEMENT





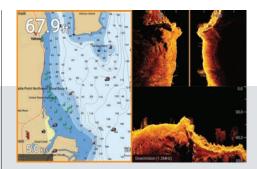
Simple, Fast Operation

Element's LightHouse Sport operating system delivers a simplified user experience with intuitive keypad control. Quickly mark waypoints and access your favourite pages with the press of a button. Quad-core performance delivers instant chart redraw, and fast response while on the water.



All-in-One Transducer

The compact HV-100 transducer is simple to install and supports RealVision 3D, DownVision, SideVision, high-frequency CHIRP and 1.2 MHz HyperVision. A high precision water temperature sensor is standard, and the HV-100 is convertible for transom or trolling motor mounting. Throughhull versions are also available.



See More with Precision Sonar

Element's 1.2 megahertz HyperVision™ takes sonar to a new level of precision. DownVision, SideVision, or stunning RealVision 3D, Element's HyperVision™ mode lets you view structure and target fish with lifelike clarity, helping you to see and catch what other anglers can't.



The Best Maps

Element's powerful chartplotter supports vector and raster electronic charts from LightHouse NC2, Navionics, C-MAP, IMRAY, NV Digital, and many other publishers. Make custom bathymetric maps on the fly using Navionics SonarChart Live or Raymarine's new RealBathy™ real-time map generator.



AXIOM TOUCHSCREEN MULTIFUNCTION DISPLAYS

Axiom is expandable, so its capabilities can grow, as needed. It supports the full range of Raymarine accessories, including Quantum radar, CHIRP Sonar, FLIR thermal cameras, audio integration, instruments, cameras, and Evolution autopilot. Standard Wi-Fi and Bluetooth connectivity allows connection to the latest Raymarine apps for tablets and smartphones.

AXIOM







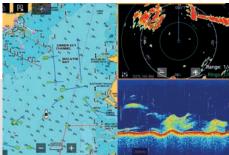
Award Winning Performance

Axiom's intuitive LightHouse 3 operating system, quad-core performance, and innovative technologies like ClearCruise Augmented Reality, Quantum Doppler radar, and RealVision 3D have earned Axiom multiple prestigious industry innovation awards.



Expandable

Connect Axiom with Quantum radar, FLIR thermal cameras, instruments, Evolution autopilots and much more. Wi-Fi and Bluetooth connect you to the latest Raymarine LightHouse Apps and entertainment. Axiom also networks seamlessly with Axiom Pro and Axiom XL displays so you can build a custom Raymarine navigation system that fits your needs.



Sonar Built-In

See the underwater world in an entirely new way with Axiom's available CHIRP DownVision, SideVision, and RealVision® 3D sonar. Axiom also supports high-frequency CHIRP and 600-watt, dual-frequency digital sonar. Alternatively, Axiom displays are available in GPS chartplotter only versions.



Rugged All Glass Display

Axiom is available in 7, 9 or 12-inch sizes to fit any vessel. Axiom's rugged all-glass display is optimised for flush or surfacing mounting and looks great on any helm. Raymarine's superbright LED display technology with optical bonding delivers superior visibility day or night.



AXIOM PROHYBRIDTOUCH DISPLAYS

Axiom Pro is engineered for captains that want it all. Available with RealVision 3D, 1kW CHIRP sonar, and Raymarine HybridTouch control, Axiom Pro is the new standard for "all-in-one" display. And with a blazing fast quad-core processor, a super bright IPS display, and the smart LightHouse OS, Axiom Pro delivers a fluid and intuitive navigation experience. Axiom Pro is easy to expand into an advanced navigation network that includes multiple Axiom displays, Quantum Doppler Radar, Evolution autopilot, FLIR thermal night vision technology, and more.







HybridTouch

Axiom Pro puts you in control with its intuitive HybridTouch control system. A responsive multitouch touchscreen display provides Smartphonesimple operation, while an integrated rotary controller, cursor pad, and keypad give you confident control when seas get rough.



Rugged and Bright

Axiom Pro employs In-Plane Switching (IPS) display technology for ultra-wide viewing angles, superior colour, and excellent compatibility with polarised lenses. See every detail above and below the water line in stunning high definition with Axiom Pro's super bright, optically bonded displays.



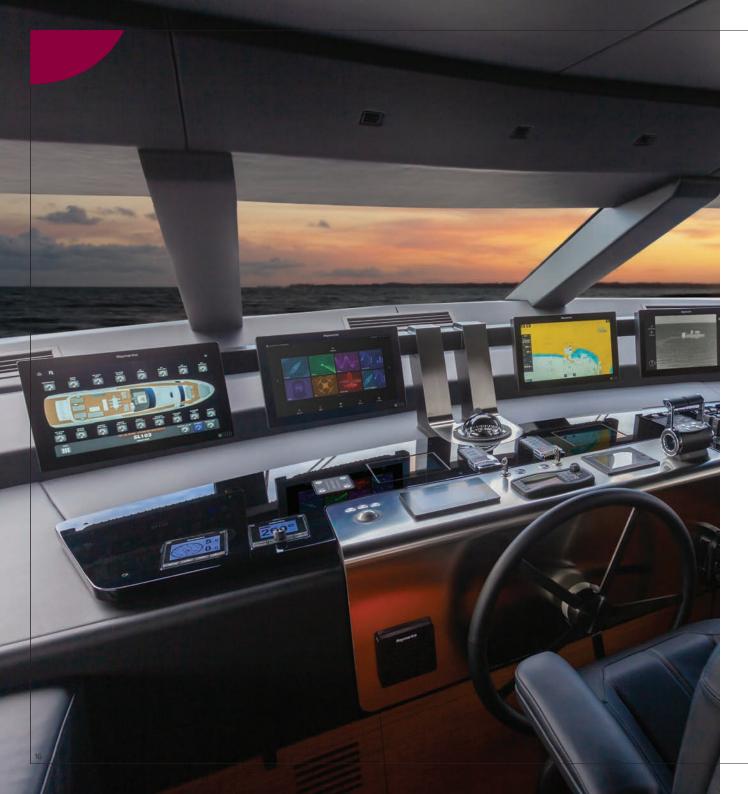
Cruise Like a Pro

Available in 9, 12 and 16-inch sizes, Axiom Pro is at home on premium cruising power and sailboats and advanced networking lets you integrate Quantum and Magnum radars, FLIR cameras, and Evolution autopilots. Mix and match any combination of Axiom, Axiom Pro, and Axiom XL for even greater flexibility when outfitting navigation tables, flybridges, and other locations on board.



Sonar Built-In

Axiom Pro is ready to explore anywhere with available built-in 1kW CHIRP, RealVision 3D, DownVision, and SideVision sonar. Axiom Pro models are also available with a single channel high CHIRP sonar for captains looking for basic sonar imaging and reliable depth reading performance.



AXIOM XL FLAGSHIP GLASS BRIDGE TOUCHSCREEN DISPLAYS

Designed for glass bridge installations, Axiom XL displays offer superior performance, large format visibility and elegant simplicity. Engineered to perform in extreme conditions, the fully waterproof Axiom XL family of glass bridge MFDs can be installed in both open cockpits and enclosed bridge stations. Each model uses in-plane switching technology (IPS) and Raymarine optical bonding to deliver wider viewing angles, sharp contrast, and unmatched readability in bright sun.





Flagship Performance

Axiom XL is Raymarine's largest and highestperforming family of multifunction navigation displays. Choose from 16, 19, 22 or 24-inch sizes with all-glass construction and full-HD displays. Axiom XL is right at home on the helms of luxury yachts and high-performance cruisers.



Advanced Video Integration

Axiom XL is the pinnacle of video and system integration. View and control a remote personal computer right from the helm with Axiom XL's HDMI input and USB touchscreen control or project Axiom XL to a remote monitor with HDMI output. Three power over Ethernet (POE) ports enable simple connectivity of IP cameras for security and ClearCruise Augmented Reality navigation.



Elegant Simplicity

Axiom XL displays are powered by Raymarine's LightHouse 3 OS and offer a fast, fluid, and uncluttered interface that is easily personalised



for your navigation style. Enjoy multitouch screen control or add the Raymarine RMK-10 keypad for complete remote system control.



Glass Bridge

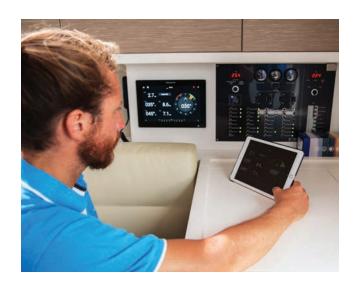
Designed for glass bridge installations, Axiom XL offers superior performance and large format visibility. Engineered to perform in extreme conditions, Axiom XL can be installed in both open cockpits and enclosed bridge stations. Each model uses in-plane switching technology (IPS) and optical bonding to deliver wider viewing angles, sharp contrast, and unmatched readability in bright sun.



CHARTS ANDMOBILE APPS

Raymarine navigation displays give you the power to explore, plan, and navigate the open water, with confidence. High definition displays and quad-core performance brings electronic charts from leading map makers to life. Enjoy fully-featured vector charts, high-quality raster charts, plus advanced features like 3D maps, satellite overlays, and automatic routing options.

CHARTS & APPS









Navionics Charts

Navionics charts are the essential cartographic reference for boaters worldwide with accurate and thorough maps of oceans, lakes and marine areas. Create your own maps with SonarChart live, sync your waypoints and routes with the Navionics Boating App or get to your next destination with Dock-to-dock auto-routing.

Ask your Raymarine dealer about purchasing Navionics bundled with an Axiom, Element or Dragonfly.



C-MAP Charts

C-MAP, a leader in professional and leisure digital nautical charts, is world renowned for accurate and easy to understand chart products, including C-MAP Essentials and 4D-MAX+ premium marine charts. Enjoy advanced features like 3D view, satellite overlay, and raster chart support.

Explore the complete C-MAP chart offering at c-map.com

□MΛP

Raymarine LightHouse Charts

Raymarine LightHouse Charts are a library of raster and vector digital map products from Raymarine and leading map makers like IMRAY, Delius Klasing and Solteknik HB. Visit raymarine. com/MarineCharts to explore the complete library LightHouse Chart options.

SeaPilot

Now part of the Raymarine family, the Seapilot mobile app combines professional grade navigation features with a simple and uncluttered user experience. A full-featured navigation app, Seapilot offers waypoint and route planning and navigation, AIS overlays, GRIB weather and advanced auto routing.

Try Seapilot today. Available on iOS at the Apple App store and for Android on Google Play store.







RADAR RADOMES & OPEN ARRAY ANTENNAS

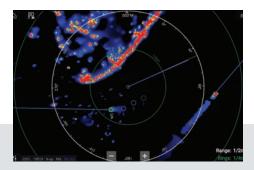
Day and night, Radar systems from Raymarine keep you aware of surrounding traffic, hazards and obstacles, approaching weather and so much more. Use your radar to navigate in dense fog or rain. Confirm your boat's position with super-accurate radar ranges. Let MARPA help you navigate safely through a crowded harbour. Enjoy map-like coastal detail when cruising offshore. Raymarine offers a wide range of radar solutions for all types and sizes of boats.

MAGNUM & QUANTUM

Quantum Radars

Raymarine Quantum™ radar, with CHIRP pulse compression technology, offers superior radar imaging, low power solid-state radar performance, and simple installation. Choose the basic Quantum for reliable solid-state radar performance or step up to Quantum 2 with Doppler enhanced target identification.





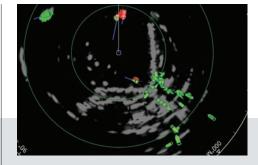
Compact Performance

Quantum radars use solid-state CHIRP pulse compression technology to deliver superior target awareness at both long and extremely short ranges. FLIR's exclusive ATX™ advanced target separation technology displays targets like boats, buoys, and landmarks with exceptional resolution and separation quality.



Energy Efficient

Quantum radars solid-state technology consumes very little power, making Quantum especially friendly to vessels running on battery power. Solid-state radar technology also generates very low radiated emissions.



Quantum 2 with Doppler

Quantum 2 with Doppler elevates your awareness by detecting radar frequency shifts returned by moving versus stationary targets. Quantum 2 then colour codes inbound targets red (dangerous) and outbound targets green (safe), making it easy to discern potentially hazardous situations when navigating in high-traffic areas.



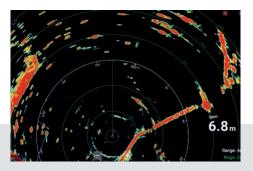
Simple Installation

With every Raymarine Quantum system, you'll also benefit from a rugged and lightweight design that is easy to install. Quantum 2 can be installed in a traditionally wired configuration, or use built-in Wi-Fi technology to connect directly to your Raymarine MFD.









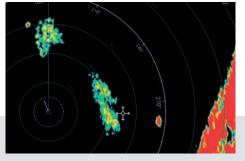
Long Range Performance

Magnum is available in 4kW or 12kW power output options and with either a four-foot or six-foot antenna array option. Magnum radars offer a maximum range up to 96nm for 12kW models – ideal for blue water vessels – and up to 72nm for 4kW models.



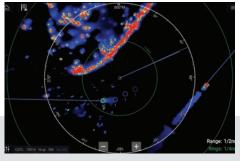
Choice of the Pros

Magnum radars are built upon the same radar technology Raymarine provides to the United States Coast Guard, so you can trust Magnum to deliver with professional features like beam sharpening technology for enhanced detail bearing resolution. Combine Magnum with Axiom and take advantage of True Trails target history display and real-time heading updates.



Essential Coastal Cruising Tools

Magnum radars feature dual-range scanning enabling them to work simultaneously at a short range scale for collision avoidance and a long range scale for coastal navigation. Magnum also has automatic 24 or 48 RPM antenna rotation speed for faster updates when tracking contacts at close range.



Enhanced Target Awareness

Magnum delivers better situational awareness with fully automatic MARPA target acquisition and tracking. Magnum also makes use of Raymarine's Evolution or AR200 9-axis heading sensor technology to provide real-time, accurate target plots.



FLIR THERMAL NIGHT VISION CAMERAS

FLIR maritime thermal imaging cameras turn night into day, keeping you safe and secure and letting you boat with confidence. From kayaks to superyachts, FLIR offers leading-edge thermal cameras that are rugged, reliable and straightforward to use.



FLIR THERMAL



Enhanced Awareness with ClearCruise IR

Combine the M132 or M232 with a Raymarine Axiom MFD and take advantage of FLIR ClearCruise™ IR, intelligent thermal analytics. ClearCruise IR provides audible and visual alerts when "non-water" objects such as boats, obstacles, or navigation markers are identified in the scene.











(1) Your night vision (2) FLIR night vision (3) Easily see navigation markers (4) Detect jetties and buoys (5) Man overboard



M132/M232

The FLIR M132 and M232 marine thermal night vision cameras take affordability and easy integration to a new level. Combining 320x240 thermal resolution, video over IP, and ClearCruise IR technology into a compact housing, the M132 and M232 are the perfect additions to any Axiom navigation system.



M Series

The choice of professional mariners around the world, FLIR M-Series thermal cameras are equipped with gyro-stabilisation on every model and deliver smooth and steady imagery when seas turn rough. Dual payload models also feature lowlight video, and advanced models offer optical zoom and long-range imaging.



Hand-held Thermal

FLIR hand-held thermal cameras are rugged, compact thermal night vision cameras that reveal other vessels, landmarks, buoys, and floating debris day or night. A high-resolution LCD and FLIR's industry-leading sensor technology puts enhanced situational awareness in your hand at a moment's notice.



DIGITAL SWITCHING VESSEL SYSTEM CONTROL AND AUTOMATION

Digital switching systems replace traditional mechanical switches and circuit breakers on board a boat with digitally controlled power distribution modules.

These modules are controlled from any LightHouse 3 based multifunction displays, from mobile devices, or programmable switch panels located anywhere on board.



DIGITAL SWITCHING



Raymarine's LightHouse 3 multifunction displays work with digital switching systems from leading providers EmpirBus, CZone, and Böning Automation. When shopping for your next new boat be sure to ask which digital switching options are available.

Digital Power Distribution

Digital switching systems use rugged and compact digital circuit control modules instead of mechanical switches and breakers. Modules are typically customised to meet the exact needs of the system being controlled, and communicate with each other using NMEA2000 networking. With digital switching systems, boat builders can significantly reduce the size and length of cabling required to distribute power throughout the boat. This makes the boat lighter overall, and can also create a significant cost savings compared to a traditionally wired boat.

Mobile Devices

With Raymarine Control and Remote Apps, you can take control using a tablet or smartphone.



Elegant Simplicity

LightHouse 3 supports rich graphical controls for digital switching systems. The graphics can be extensively customised, creating an experience that is both powerful and simple to operate.

Touchable graphics bring vessel systems to life and report status of critical systems at a glance. Macro controls can be easily created to perform normally complex operations with a few simple touches. Changes to the boat's systems can be easily accommodated with simple file updates.



INSTRUMENTS ANALOGUE AND DIGITAL

Raymarine instruments are world renowned for accuracy, innovative features and high-performance. From the space saving i40 series to the multifunction i70s series, there are Raymarine instruments available to fit every boater's requirements.

INSTRUMENTS





i40 Compact Instruments

i40 Depth, Speed, Bidata and Wind displays are compact but powerful and offer full integration with Raymarine autopilots and multifunction displays. i40 instruments have a built-in transducer interface and feature simple SeaTalk networking to other devices. Advanced integration to SeaTalk^{NG} and NMEA2000 networks is also possible using an optional adapter module.

i50 Depth and Speed

The i50 Depth and i50 Speed instruments are dedicated, data displays for sail and powerboats. Each i50 can host its own transducer or can be set up to repeat data from a different on board source. i50 instruments offer a super-wide viewing angle, excellent daytime visibility and adjustable red back lighting for night time use.

i50 Tridata

The i50 Tridata instrument combines the functions of the Speed and Depth instruments into a single display with 3-lines of information. Dual connections are provided for depth and speed transducers, or the Tridata can act as a repeater for data from another source. In addition to depth and speed Tridata displays water temperature, distance log, trip log, as well as speed over ground (when interfaced to a GPS receiver.)

i60 Wind and CH Wind

Designed primarily for sailing vessels, the i60 Wind and Close Hauled (CH) Wind displays offer an easy-to-read analogue needle display for wind angle along with a crisp LCD display for wind speed or force. The Wind instrument shows the relative wind angle through 180°, while the close hauled (CH) wind model shows an enlarged scale from 0° to 60° for close-angle sailing.







i70s Instrument

Raymarine's i70s instrument offers maximum visibility and versatility in an instrument display. Built with a 4.1" colour LCD display the i70s has all-weather optical bonding and bright LED back lighting for excellent viewing day or night.

The i70s has fully customisable pages capable of showing digital, analogue and graphical displays. Use your i70s to show parameters for depth, speed, wind, GPS, AIS, navigation, engine data, tank levels, environmental data, and much more.

i70s receives information from connected SeaTalk^{NG} or NMEA2000 sensors and devices. i70s can also network with i50, i60 and Raymarine Wireless instrument systems.

The i70s features a glass-bridge inspired design that complements Axiom multifunction displays. Optional snap-on bezels are also available to match other Raymarine instrument and MFD families.

Micro-Talk Gateway

The Micro-Talk Wireless Performance Sailing Gateway allows you the flexibility to mixand-match any combination of wired or wireless Raymarine instruments, transducers, multifunction displays and autopilots. Whether you are building a new system from scratch, or expanding an existing system, the Micro-Talk Gateway enables performance-minded sailors to take advantage of the enhanced accuracy and installation convenience offered by Raymarine's wireless, solar-powered wind transmitter options.

Wireless for Cruising

Raymarine's wireless instrument systems offer instant access to accurate depth, wind, speed and GPS data. The displays are simple to install, solar powered, and use Micronet wireless networking to communicate. Micronet MN100 series instruments include single line, dual-line and analogue wind display options. A wide selection of optional transducers, sensors and accessories are available to customise your system.









Wireless For Racing

Raymarine wireless instruments deliver a tactical advantage to the club racer or an ocean navigator alike. In addition to navigation data, Raymarine wireless racing systems deliver polar data, true wind speed and angle, VMG, compass heading and more. Small screen, large screen and hand-held options ensure you have the data you need, where you want to see it.

Race Compass

Raymarine's Micro Compass and Racemaster compass systems give you the winning advantage with accurate, reliable readouts. The self-contained Micro Compass' tactical scale give you clear stable figures for port and starboard tacks. Racemaster is a two tier display that displays heading, wind shift indicator, line bias, and race timer. Both compasses are 100% solar powered, install in seconds, and can be easily removed for storage.





EVOLUTIONAUTOPILOT PERFECTION

With over 40 years of autopilot research and development, Evolution™ is the pinnacle of Raymarine autopilot technology. Designed for razor-sharp course keeping and steady control, Evolution autopilots require virtually no calibration or complicated setup. We offer a full range of Evolution autopilot systems to fit sailing yachts, outboard powered RIBS and luxury cruisers.

Visit raymarine.com/evolution to find the right autopilot for your boat or consult your local Raymarine electronics dealer to help you configure the perfect Evolution system.

AUTOPILOTS









Evolution Perfection

Evolution's 9-axis EV sensor core now uses patented algorithms for improving the accuracy of measured wind conditions. Enhanced awareness of wind angle and wind speed allows Evolution to deliver crisp and responsive steer-to-wind control, giving both cruising and racing skippers the confidence to let Evolution take command in the most challenging conditions.

Track IQ™ Technology

Exclusive Evolution TrackIQ™ technology delivers best-in-class steer to GPS waypoint tracking. Patented Evolution algorithms and 9-axis gyro stabilisation compensates for the effects of sea conditions and vessel motion, enabling Evolution to make smoother steering commands and keep the vessel on a plotted GPS course with incredible accuracy regardless of boat size.

Selectable Performance

Evolution offers 3 selectable levels of performance to fine-tune ride quality and course keeping. Leisure Performance relaxes course keeping and places the emphasis on attaining a smooth and comfortable ride. Cruising Performance balances all-around accurate course keeping with excellent ride quality and Race Performance dials up the course keeping to maintain the tightest possible cross track error, at the sacrifice of some ride comfort.

Evolution Advantage

Raymarine Evolution Autopilots make your time on the water more efficient and more enjoyable. Evolution steers so accurately it can save fuel and get you to your destination faster. Spend less time chasing the compass and more time looking out for traffic and hazards. Evolution gives you the freedom to let go of the helm to trim sails, check the chart, and perform other watch keeping tasks.









Evolution autopilot systems consist of 3 major components:

Evolution Sensor Core

The EV sensor core is the heart of every Evolution system. More than just a compass it contains an aerospace-derived 9-axis gyro, heading system, and course processor. Evolution AI™ algorithms in the sensor core learn and adapt to your boat, wind and waves.

Drive Unit and ACU

The drive unit and actuator control unit (ACU) are the muscle behind Evolution that connects to your boat's steering system. Raymarine has a broad range of drive units to match almost any type of mechanical, hydraulic or steer-bywire system.

Control Head or MFD

Evolution autopilots can be controlled from compact p70 or p70Rs colour control heads, or directly from networked LightHouse 3 multifunction displays. This gives you multiple options for where and how you'd like to be able to control your autopilot.



AUTOPILOTS

Cockpit Autopilots

EV-100 Autopilots are installed in the cockpit of tiller and wheel steered yachts and smaller power boats. An EV-100 system consists of an EV-1 Sensor, ACU-100 Autopilot Control Unit, Drive Unit and Control Head.





























EV-100 Sail

The EV-100 wheel pilot comprises a fully enclosed wheel-drive for simple installation and superb autopilot performance.

Vessel Type: Sail

Max Displacement: 7,500kg **Drive Type: Wheel Drive**

EV-100 Tiller

The Raymarine EV-100 Tiller Pilots are perfect for large tiller steered yachts up to 6,000kg (13,200 lbs) displacement.

Vessel Type: Sail

Max Displacement: 6,000kg **Drive Type: Tiller Drive**

EV-100 Power

Perfect for vessels with single outboard engines and hydraulic steering, install the entire system above or below decks as required.

Vessel Type: Power Max Displacement: N/A

Drive Type: 0.5L Hydraulic Pump

EV-150 Hydraulic

The EV-150 delivers superior autopilot performance for hydraulically steered boats, particularly those with outboard motors and rudderreference less systems.

Vessel Type: Power Max Displacement: N/A

Drive Type: Type1 Hydraulic Pump

ST1000/ST2000

Removable Cockpit Autopilots for Tiller Steered Yachts. Tiller pilots have consistently been the world's most popular pilot.

Vessel Type: Tiller Steered Yachts Max Displacement: 3,000kg -

4,500kg

Drive Type: Tiller

Inboard autopilots

The Evolution inboard range consists of autopilot packs designed to suit specific vessel types, steering systems and vessel displacements.























EV-300 Solenoid

The EV300 system is for use with electric solenoids that control the vessels hydraulic steering system.

FV-400

The EV400 pack controls vessels with any Type 1 to Type 3 mechanical or hydraulic drive units.

EV-200 Drive-By-Wire

EV-2 has been designed for the latest drive-by-wire steering systems and connects directly to Raymarine's SeaTalkng bus.

Follow on Tiller

The follow on tiller autopilot controller brings fully functional power steering to remote and secondary control stations anywhere on board your boat, yacht or commercial vessel through your Evolution Autopilot Drive unit.

EV-200

The EV200 system pack controls vessels with any Type 1 drive unit (Hydraulic, Linear, Sail or Power).



VHF RADIOS BE HEARD LOUD AND CLEAR

From compact VHF Radios to the ultimate all-in-one communications solution - we have a VHF Radio for every boater! You'll always be heard loud and clear with a VHF Radio from Raymarine. Whether it's our new compact Ray53, full-sized Ray63, or multifunction Ray73, you can depend on your Raymarine VHF Radio for years of trouble-free communication at sea.







RAY53

COMPACT VHF RADIO WITH BUILT-IN GPS

Ray53 is small in size, but big on features and performance. Class D Digital Selective Calling gives you critical distress, safety and convenience features while a built-in GPS/GNSS receiver with external aerial connection makes for simple installation.

RAY90 and RAY91

MODULAR MULTI-STATION VHF

Raymarine's Ray90 and 91 VHF radios bring multi-station communications to whole new levels of power, performance and flexibility.

Their black-box design hides the transceiver unit out of sight while offering simple operation from their compact handset stations.

Ray90 and 91 support up to 2 wired handsets/ speaker stations, plus up to 3 more wireless stations for simple installation and true walkaround convenience.

Ray91 adds a Class B Automatic Identification System receiver for enhanced awareness of surrounding marine traffic on your chartplotter and radar.



RAY63

DUAL-STATION VHF RADIO WITH BUILT-IN GPS

Ray63 has all of the capabilities of the Ray53 on a full-sized radio chassis with a larger LCD screen and controls. Ray63 also supports a full-function RayMic wired remote control or up to 2 RayMic wireless control stations.



RAY73

DUAL-STATION VHF GPS, AIS, LOUDHAILER

Ray73 is Raymarine's deluxe traditional VHF radio packed with all of the powerful features of the Ray53 and 63, plus a built-in Automatic Identification System (AIS) receiver along with a loudhailer output. Add an optional hailing horn for fog signals and voice communication with on-deck crew.

ACCESSORIES & PERIPHERAL PRODUCTS

















ACCESSORIES



AIS (Automatic Identification System)

Automatic Identification Systems (AIS) enable vessels and shore side tracking stations to wirelessly exchange identification, position, course, speed and more. Your Raymarine MFD can show this information right on your chart, radar and augmented reality displays to improve awareness and reduce the risk of collision.



AIS350

Raymarine's AIS350 is a receive-only AIS device that allows you to receive and display the AIS data transmissions from nearby vessels.



AIS650

The AIS650 is a class B AIS transceiver allowing you to transmit your data to other AIS equipped vessels, and receive their data.



AIS700

The AIS 700 is a Class B AIS transceiver with a built-in antenna splitter that allows the AIS to share an antenna with your VHF marine radio many vessels.



Marine Cameras

Providing live video for security and augmented reality, Raymarine's CAM210 and CAM220IP network cameras integrate with LightHouse 3. Engineered for the marine environment these HD cameras let you see and capture action on and off the boat.

ACCESSORIES & PERIPHERAL PRODUCTS

















ACCESSORIES









Marine Audio

Raymarine's Axiom multifunction displays powered by LightHouse 3 OS can integrate seamlessly with marine audio systems from Rockford Fosgate, FUSION and JL Audio. Using NMEA2000 networking you can remote control your AV system right from your Raymarine displays.

Satellite TV

Our antenna systems automatically track and receive satellite TV signals in almost any conditions - guaranteed quick, clear, reliable access to hundreds of digital channels.

Available with 33 cm, 37 cm, 45 cm and 60 cm dish diameters.

Transducers

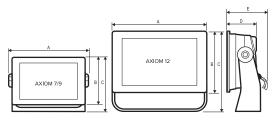
Raymarine offers a wide range of depth, speed and temperature transducers that work with instruments, multifunction displays and sonar modules. Transducers are available in transom mount, in-hull, or through hull configurations. Transducers are manufactured from plastic composite, bronze or stainless steel to fit practically any boat on the water.

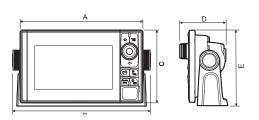
Wired Remote

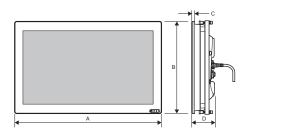
The compact RMK-10 remote keypad works with any LightHouse 3 OS multifunction display and puts control right where you need it. With horizontal or vertical mounting options and a compact footprint it fits just about anywhere above or below decks.

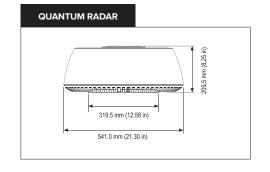
DIMENSIONSBASIC PRODUCT SIZE DATA

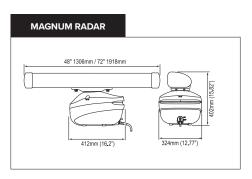
AXIOM, AXIOM PRO, AND AXIOM XL DIMENSIONS																				
	AXIOM 7		AXIOM 9		AXIOM 12		AXIOM PRO 9		AXIOM PRO 12		AXIOM PRO 16		AXIOM XL 16		AXIOM XL 19		AXIOM XL 22		AXIOM XL 24	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Α	250.4	9.86	244.08	9.64	314	12.36	299.32	11.78	358	14.1	452	17.8	394.9	18.18	533.56	22.77	394.9	18.18 in	533.56	22.77
В	133	5.24	157.78	6.21	217	8.54	329.5	12.97	388.5	15.3	-	-	248.22	11.40	326.33	15.23 in	248.22	11.40	326.33	15.23
С	162.5	6.4	187.8	7.39	226.8	8.93	173.8	6.84	222.8	8.77	258	10.2	9.0	0.35	9.0	0.35	9.0	0.35	9.0	0.35
D	76.4	3.0	74.9	2.96	79.3	3.12	97.9	3.85	96.3	3.79	101.8	4.0	73.96	2.91	73.96	2.91	73.96	2.91	73.96	2.91
E	218	8.59	177	6.97	183	7.2	186.2	7.3	246.13	9.69	-	-	-	-	-	-	-	-	-	-

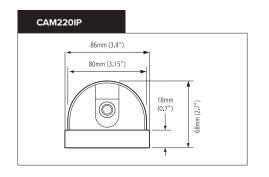


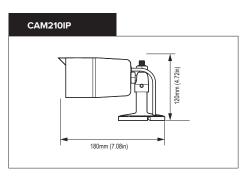


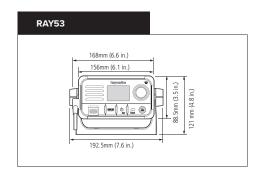


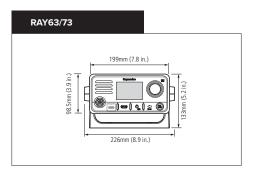


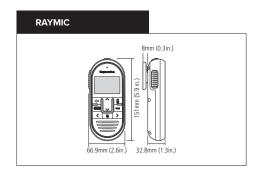


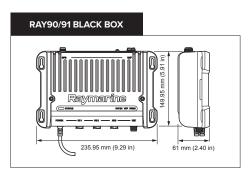


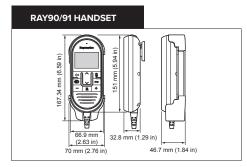


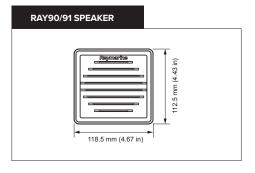


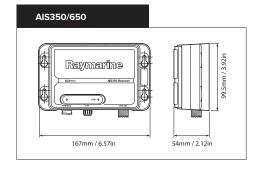


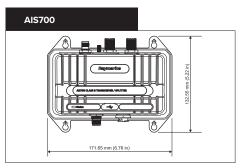


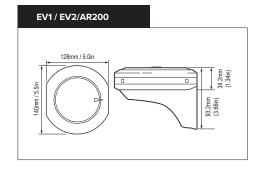


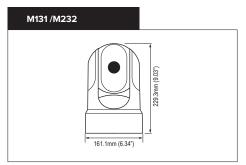


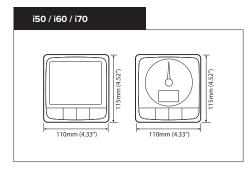


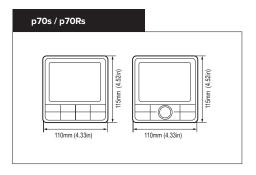


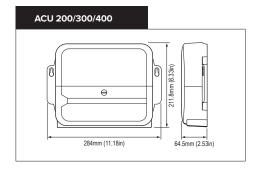


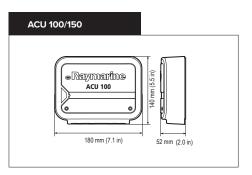


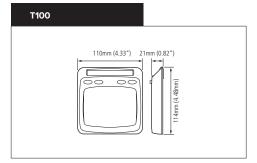


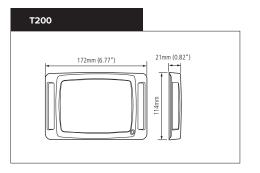












Safety Notices

Raymarine products are intended to be used as aids to navigation and must never be used in preference to sound navigational judgement. Their accuracy can be affected by many factors, including environmental conditions, equipment failure or defects, and incorrect installation, handling or use.

Only official government charts and notices to mariners contain all the current information needed for safe navigation, and the captain is responsible for their prudent use. It is the user's responsibility to use official government charts, notices to mariners, caution and proper navigational skill when operating any Raymarine product.

Content Note

The technical and graphical information contained in this brochure, to the best of our knowledge, was correct as it went to press. However, the Raymarine policy of continuous improvement and updating may change product specifications without prior notice.

Therefore, unavoidable differences between the product and this brochure may occur from time to time, for which liability cannot be accepted by Raymarine.

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