MEJ

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TOP 155

BEST & BRIGHTEST BOATING ELECTRONICS

14.8 ft
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2021 - 2022 BUYERS' GUIDE

IN THIS ISSUE

A one-of-a-kind directory of marine electronics, manufacturers, dealers, product categories and more.

NMEA

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MEJ
MARINE ELECTRONICS JOURNAL

2021-2022
BUYERS' GUIDE

THE MARINE ELECTRONICS SOURCE

ANNUAL BOATERS' ISSUE

TOP 155
BOATING ELECTRONICS
BEST & BRIGHTEST
2021 - 2022

12 BEST & BRIGHTEST BOATING ELECTRONICS
Top products in 17 categories

COVER
Cover photo courtesy of Humminbird/Johnson Outdoors

DEPARTMENTS

THE SOONER YOU SEE IT,
THE BETTER YOU CAN AVOID IT.

//////////// FANTOM™ RADAR SERIES ////////////
TRACK WEATHER UP TO 96 NAUTICAL MILES AWAY

NMEA Business

Safety electronics are essential

Mark Reedenauer
President & Executive Director

This annual Buyers' Guide allows NMEA to talk directly to you, the boater, about electronics for your vessel, whether it's new, used or a classic. 2020 was a strange year but a banner one for boat and electronics sales, as families used their existing boats more, bought a boat for the first time, purchased a bigger boat, or refurbished the boat they had by installing new electronics or a new engine(s). As smart phones have evolved, so have marine electronics, and they now play a key part aboard even kayaks and PWC (Personal Water Craft) for charting, fishfinding, and operational data.

An often overlooked aspect of marine electronics is safety. If you have a boat over 20 feet and operate in saltwater or on the Great Lakes, products like a VHF radio, EPIRB (Emergency Position-Indicating Radio Beacon), and AIS (Automatic Identification System) should all be at the top of your list as essential products to have on board. They may not impress your friends or others in the marina like your cool new MFD (Multifunction Display), but these items will help save you, your family and friends or crew's lives in the event of an emergency. Remember, cell phones only work close to shore.

The Best & Brightest Boating Electronics section that starts on page 12 overviews 17 categories of 2021/2022 marine electronics. I urge all readers to review the VHF, EPIRB, AIS and Personal Survival Device sections, as these are critical safety and life saving products that should be on board, especially if you go boating along the coasts or on large lakes. If you venture farther offshore, these and other devices are a must.

NMEA has a network of certified installers and members across the USA that is expanding globally at a fast pace due to the virtual and in-class technical training we offer. These experts are here to help you choose the right electronics for your boating applications. On top of that, they know how to ensure that your electronics are set up properly in the event of an emergency, including programming your MMSI (Maritime Mobile Service Identity) number and testing your VHF DSC (Digital Selective Calling) operation. Getting a vessel MMSI number is the first step as this describes your vessel and owner information.

The FCC (Federal Communications Commission) and US Coast Guard authorize organizations to assign domestic MMSI numbers. The application process is relatively simple. You'll receive an MMSI number immediately if you go to organizations like BoatUS and the US Power Squadron. MMSI information must be programmed into your VHF radio and registered with your EPIRB through NOAA (National Oceanic and Atmospheric Administration).

Modern VHFs do a lot more than just enable you to hail another vessel, but properly connecting the VHF to your onboard GPS source is critical. If it is not, or there is no MMSI number entered into your VHF, the red emergency DSC button on your radio will not work. These procedures are very important and often overlooked and that is where NMEA-certified installers come in to help. We're all familiar with the buzz phrase "safety precautions" from living through 2020. I urge all of us to apply the same concern for safety precautions to the electronics you buy for your boat. Thanks and be safe out there!

Best Regards,
Mark Reedenauer

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NMEA OneNet—a giant leap ahead

By now most boaters have heard the term NMEA 2000, particularly if you're buying new electronics. Essentially, NMEA 2000 is an industry standard that allows marine electronics to communicate with each other over a cable called a backbone. What's especially useful about the standard is that it permits different brands of electronics to be connected on the common network.

In late 2020, a group of electronics experts representing a broad spectrum of companies completed a new standard—NMEA OneNet. It's not designed to replace NMEA 2000 but rather to supplement it and provide additional functionality. You'll be hearing a lot more about OneNet in the months and years to come because of what it can do. In a nutshell, it is much faster than NMEA 2000 and has a far greater capacity to carry information. OneNet, unlike NMEA 2000, can carry video signals such as sonar and radar. Manufacturers are gearing up to produce electronics that will operate on the OneNet network.

We posed several questions to Nate Karstens, the chairman of the NMEA committee that developed OneNet. His answers will give you an idea of what to expect.

How would you describe NMEA OneNet in 25 words or less?

NMEA OneNet is a networking technology based on Ethernet IPv6, and other internet protocols for distributing marine data on the vessel.

How will OneNet and NMEA 2000 work together to fulfill onboard functions?

Compatibility with NMEA 2000 was a requirement for OneNet from the very beginning. The OneNet standard contains a specification for a gateway between the two networks. The gateway is designed to make all NMEA 2000 devices appear as if they were really OneNet devices, and all OneNet devices appear as if they were really NMEA 2000 devices. This provides backwards compatibility with existing NMEA 2000 devices, which were developed without any knowledge of OneNet. Similarly, it allowed the OneNet standard to be developed without being constrained by the decisions made for NMEA 2000.

The differences in the underlying network technology means that both types of networks will have a place on boats for the foreseeable future. NMEA 2000 uses CAN, which features a built-in mechanism for ensuring high-priority messages always take precedent over low-priority messages. [CAN stands for Controller Area Network. It is a widely used standard in the vehicle, construction and industrial industries due to its robustness and performance—Ed].

When NMEA 2000 was released many years ago, the world was introduced to N2K backbones, drop cables, micro and mini components, nodes, terminators and so forth. Please describe the infrastructure of a typical OneNet installation or will it simply operate on existing Ethernet cabling without additional dedicated hardware components?

OneNet network design will be no problem for anyone familiar with Ethernet. Most installations will have at least one switch to connect products to the network, and some switches will be integrated into other products. Larger installations will have multiple switches connected together. OneNet Ethernet cables are required to use one of the approved connectors, so it may be necessary to replace existing cabling and components (depending on the installation environment). As OneNet advances and we start seeing a mix of 1Gbps and 100Mbps devices, it will be important for installers to provide a network backbone as fast as the fastest device on the network (you cannot connect two 1Gbps devices using a 100Mbps link).

All that being said, the first version of the standard does not have a detailed specification on network infrastructure components. Networks with the first version of OneNet can get by with a standard, consumer-grade switch. The problem with these switches is that most only meet the needs of a small home or office environment. In the future, OneNet networks will have a mix of product types and it will take some specialty equipment to get them to coexist on the network. To illustrate, consider a high-bandwidth radar on the same network as a temperature sensor that is only able to process a small amount of traffic. With a standard switch, the link to the temperature sensor will be overwhelmed by traffic from the radar. Networks like this will need switching technology that more intelligently directs these data streams. We plan to define this in the next update to the standard.

Once OneNet is in common use throughout the industry, how is it likely to impact boaters?

In the near future, end users can expect more choice in how networks are designed and the equipment that goes on their boats. As OneNet grows I think we will see a great deal of innovation in how products interoperate with each other, even more so as onboard internet becomes more cost effective.

Maximizing cybersecurity has been a major effort in OneNet's development. Please describe the standard's cybersecurity defenses?

Modern networks include some significant entry points for attackers, such as WiFi and the internet. To protect against this, each OneNet device must prove that it is authorized to communicate with the OneNet network. This requires installers to pair each device to the network. Pairing is a quick process and should be straightforward once everyone understands how it works. Beneath the surface, the pairing process is really a

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TOP 155
BOATING ELECTRONICS
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BEST & BRIGHTEST BOATING ELECTRONICS

2021 - 2022 TOP PRODUCTS

CATEGORIES

If you're in the market for new boating electronics, selecting the right equipment can make your head spin because of the dizzying variety of brands and models, each touted as the one to buy. We're here to help you narrow down the choices. We asked manufacturers to name the one model that they consider their Best & Brightest in a long list of product categories—17 in all—from AIS to wireless devices.

If you haven't seen this publication before, that's because *Marine Electronics Journal* is a trade magazine published by the National Marine Electronics Association for its members—the companies that manufacture, sell and service the electronics on your boat. In one issue a year we do things differently. Rather than serving up technical articles on topics that impact the marine electronics industry, we tailor the content for boaters. We call it the Buyers' Guide.

Following the Best & Brightest Boating Electronics section is a source directory of products, manufacturers, service providers, training schools, boat builders and full-service dealers (see page 73). You can count on any of them to provide the electronics and service you need.

All of us at *Marine Electronics Journal* and the National Marine Electronics Association wish you a safe and happy boating season!

Jim Fullilove
Editor

AIS

Automatic Identification System

CLASS A vs CLASS B AIS

Class A AIS devices report their position every 2-10 seconds, depending on the vessel's speed and/or course changes and report static and voyage-related information every 6 minutes. Class A units can text message safety-related and other information.

Similar to Class A-equipped vessels, boats with Class B AIS report every three minutes or less when at anchor, but the position is reported less often and at lower power. Class B AIS report the vessel's static data every 6 minutes, but not any voyage-related information. They can receive safety-related text and AIS application specific messages, but cannot transmit them. Class B units are generally less expensive than Class A.

Digital Yacht AIT5000

Class B+ 5–watt SOTDMA AIS transponder with integrated and ZeroLoss VHF antenna splitter for fast installation. Integrated Wi-Fi for tablet and iPad connectivity as well as transponder diagnostics and control via web browser interface. NMEA interfaces allow connectivity with MFDs as well as DSC VHFs for a complete integrated solution.

⭐ **www.digitalyachtamerica.com**

Furuno FA70

The FA70 AIS transceiver provides multiple ports for simple connection to your NavNet, AIS-capable radar, chartplotter, or your favorite navigation software. AIS is a critical enhancement in congested waterways, graphically presenting information like vessel name and call sign, position, course, and speed. Because it does not require line of sight to function, you can display AIS-equipped vessels before you can see them on the water. The FA70 is a complete Class B+ (SOTDMA) AIS that transmits your vessel information at faster rates and more powerfully than existing Class B units. SOTDMA guarantees an AIS time slot allocation, making you visible in congested waters. It even has its own internal high-accuracy GPS receiver with WAAS Differential (DGPS) capability, ensuring that you're transmitting the highest precision information.

⭐ **www.furunousa.com**

Garmin AIS 800

Increase your situational awareness and confidence on the water with the Garmin AIS 800 transceiver. It has 5 watts of transmit power and provides faster position reporting than ever before. It transmits the vessel's information to other AIS receivers in the area while it receives their AIS target data. The Garmin AIS 800 has an internal VHF antenna splitter, which allows the VHF and AIS to share a single antenna. It includes a built-in GPS (with connector for optional external antenna) and integrates seamlessly into the Garmin onboard system. The transceiver features NMEA 2000/0183 connectivity for easy integration with compatible chartplotters and multifunction displays. And it's all packed into an easy-to-install black box unit with a small footprint.

⭐ **www.garmin.com**

Icom MA-510TR

Icom's MA-510TR marine transponder can receive both Class A- and Class B-transmitted AIS signals and includes a GPS antenna. AIS data can be output from a USB cable connector on the rear panel (via a third-party application and a connection cable) and has a new navigation function that guides you to your specified AIS targets or waypoints (maximum 100 waypoints are selectable). The 4.3-inch IPS TFT color display provides a wide viewing angle and is readable even under direct sunlight. The Collision Alarm and Anchor Watch functions are always on duty. The Collision Alarm sounds when an AIS target is closer than the set CPA/TCPA values. In the event that your vessel drifts while anchored, the Anchor Watch function will do the same.

⭐ **www.icomamerica.com**

Icom MA-510TR

Garmin AIS 800

Furuno FA70

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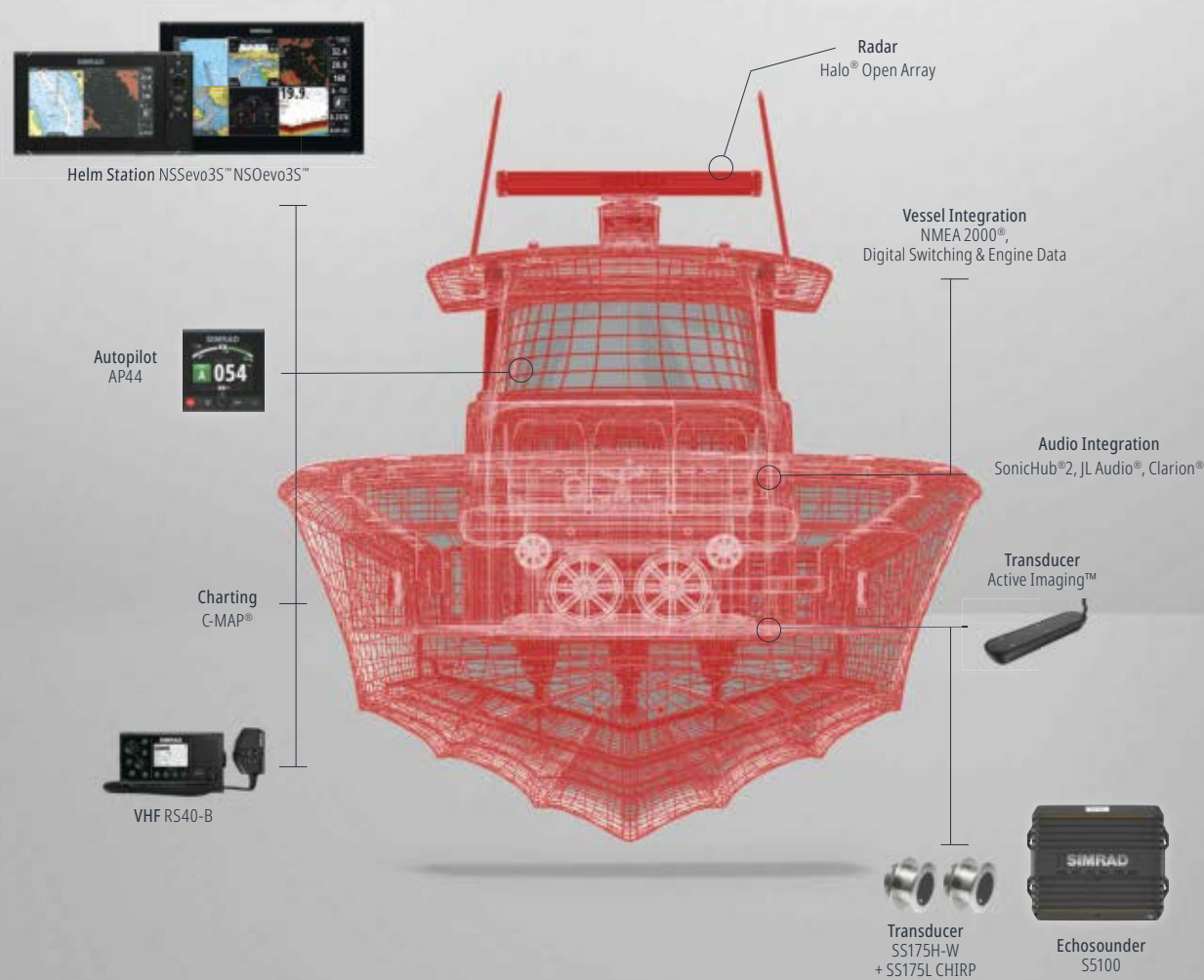
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www.simrad-yachting.com

Automatic Identification System

Koden KAT-330

The Koden KAT-330 is a robust and feature-packed Class A AIS transceiver with built-in chart display, engineered to perform under the harshest commercial marine or military applications. Carrying international SOLAS, MED, FCC, Inland Waterway and Industry Canada certifications, the KAT-330 is a powerful solution for mariners worldwide. It delivers top-quality AIS performance in the most challenging environments and conditions, and is designed to make it very easy to update voyage data. Features include Wi-Fi, NMEA 0183 and NMEA 2000 connectivity and pilot plug interface. The KAT-330 is built to be shock, vibration, weather and waterproof (IPx6 and IPx7). The 5.9 x 6.5 x 4.3-inch case includes a high-definition color LCD for monitoring and tracking of AIS targets on detailed electronic charts.

★ **www.si-tex.com**

McMurdo SmartFind S5A

Stored in a quick-release carry-off bag, the rugged McMurdo SmartFind S5A AIS SART is buoyant and waterproof to a depth of 10 meters. When activated, the SmartFind S5A transmits an alert message along with your ID number and current GPS location, which will trigger an alarm on all AIS-equipped vessels within VHF range. The built-in GPS provides accurate location information to rescuers, enabling them to quickly locate you. The non-hazardous battery has a six-year storage life and enables the SmartFind S5A to transmit continuously for in excess of 96 hours.

★ **www.seasofsolutions.com**

Navico NAIS-500

Simple to use and offering high-performance safety, the Class-B AIS NAIS-500 is plug-and-play compatible with Lowrance, Simrad and B&G multifunction displays and VHF devices. Overlaying AIS data on MFDs, the NAIS-500 shows the position and movements of all AIS-equipped vessels within range and provides a greater picture of a boater's surroundings. The system uses sophisticated automatic digital time-sharing technology that enables the exchange of static information like MMSI number, vessel name, call sign and type, as well as dynamic data, including course, distance, speed and more, from ship to ship and ship to shore-based traffic stations. Lightweight and compact, the NAIS-500 black box is rugged and submersible, and features an integrated GPS receiver and a variety of connection options, including NMEA 2000.

★ **www.simrad-yachting.com**

Onwa KS-200A

The Onwa KS-200A is a Class B+ AIS black box transponder that transmits and receives AIS data to be interfaced with navigational equipment on board such as radar and Onwa MFDs. The AIS supports NMEA 0183 interface connections and needs an external GPS antenna for position and VHF antenna for AIS transmission. Class B+ AIS uses the same SOTDMA technology as Class A AIS, which guarantees time slot allocation. Class B+ AIS comes with increased transmission power of 5 watts, increased transmission rate, range and AIS satellite reception enabling global tracking. AIS data such as MMSI, call sign, boat name, etc. can be configured with the included windows-compatible software.

★ **www.onwamarine.com**

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Automatic Identification System

Raymarine AIS700

The AIS700 is Raymarine's latest-generation Class B AIS with full transmit and receive capability for enhanced situational awareness and navigation safety. For ease of installation, the AIS700 comes standard with a built-in VHF antenna splitter. This simplifies the overall installation by enabling the AIS transceiver to share a common aerial with a marine VHF radio, if desired. AIS700 supports NMEA 2000, NMEA 0183, PC-USB and SeaTalkNG networking for seamless onboard integration. AIS700 is designed to international standards with the very latest SOTDMA technology for faster updates. AIS700 has its own internal 72-channel GPS receiver and external antenna, as required by international standards.

⭐ **www.raymarine.com**

Shine Micro SM1680

Shine Micro is passionate about the innovation and performance of AIS technologies. The SM1680 achieves sectorized, persistent, over-the-horizon AIS monitoring at a significantly lower cost, while preserving data control and integrity. Using a high-gain array of four antennas and mast-mounted LNAs (Low Noise Amplifier), the extreme-sensitivity receivers can receive very weak, refracted signals from beyond the horizon. The octal receiver array performs packet-by-packet beam forming, while providing noise rejection through interferer nulling. And the SM1680 outputs signal verification data such as timing and deviation, enabling transponder compliance testing without boarding a vessel. With the SM1680, you can monitor a 200-nm Exclusive Economic Zone while maintaining control of your data and the access to it.

⭐ **www.shinemicro.com**

SI-TEX MDA-5

This advanced Class B/SO AIS system transmits at 5 watts, compared to 2 watts for traditional Class B units, allowing equipped vessels to be seen at longer ranges. It also transmits a vessel's position and dynamic data on a more frequent SOTDMA Class A-type priority basis. The MDA-5 is waterproof, dustproof and vibration proof. The MDA-5 features an integrated zero-loss antenna splitter, eliminating the need for a second VHF antenna. Internal 72-channel GPS receiver, external GPS antenna included as standard equipment, built-in Wi-Fi and NMEA 2000/0183 and USB connections provide easy integration with onboard marine electronics. Onboard VDR (Vessel Data Recorder) continuously records 30 days of voyage data that can be downloaded via USB connection.

⭐ **www.si-tex.com**

Vesper Marine Cortex M1

Cortex M1 is an advanced Class B SOTDMA smart AIS transponder with remote vessel monitoring, 10-Hz GPS for more accurate positioning, universal NMEA gateway, and no-loss splitter for optimum performance for both VHF and AIS on one aerial. Cortex includes Vesper Marine's award-winning smartAIS technology with smart alarm logic for proactive alerts of potentially hazardous situations. It combines navigation and sensor data with intelligent alarms when connected to a speaker via the 10-watt output. Designed to be future-proof, ongoing feature updates are available via smartphone app, like the recently introduced directional voice alerts. Cortex alerts, such as AnchorWatch, are available ashore via subscription, along with remote device control. Boaters can simply add a wireless (tethered or portable) Cortex handset to upgrade to VHF.

⭐ **www.vespermarine.com**

ComNav X5

The X5 Class A AIS comes with built-in color chartplotter and offers crystal clear target details. Use of the Rotary Encoder allows easy menu selection and execution. Compass is compatible with NMEA 0183/NMEA 2000. Micro SD card makes updates of software and chart easy. IMO/Wheel Mark-approved IEC61992-2 Ed 2.0 and IP67 rated for water ingress.

⭐ **www.comnav.com**

AUDIO ENTERTAINMENT

Clarion CMSP

Offered in 6.5- and 7.7-inch options, the new CMSP coaxial, full-range speakers and matching 10-inch subwoofers benefit from Clarion's decades of experience in marine audio design. The premium marine coaxial speakers feature a bridge-mounted, edge-driven, silk dome tweeter with neodymium magnet and ferrofluid cooling for outstanding high-frequency detail. Integrated within the woofer basket, away from the elements, is a second-order, high-pass tweeter filter. Woofer assembly is sealed from the front to eliminate a common failure point of typical coaxial speakers and creates more woofer cone surface area for better efficiency and output. Available in 6.5-inch with or without optional built-in RGB LED lighting or 7.7-inch with built-in RGB LED lighting. The CMSP series also includes a powerful 10-inch subwoofer optimized for infinite-baffle applications.

⭐ **www.clarionmarine.com**

Fusion Apollo RA770

The Apollo RA770 is the world's most awarded marine stereo. Featuring many industry firsts including Fusion's Digital Signal Processing technology (DSP), PartyBus-Network capabilities, built-in Wi-Fi with Apple AirPlay 2 and a large color touchscreen display, the Apollo RA770 redefines audio excellence with its revolutionary technology and innovative design to deliver an unprecedented marine audio entertainment experience.

⭐ **www.fusionentertainment.com**

Infinity Kappa 6120M

Infinity's Kappa marine loudspeakers leverage Infinity's world-class audio engineering and music reproduction with purpose-built marine loudspeakers that will survive the rigors of the harsh marine environment. The 6.5-inch coaxial pair has a Plus One cone (results in higher sensitivity), mylar dome tweeter, one-piece cast polymer basket, sealed magnet, and rubber surround for high SPL performance. The speaker is rated at 100W RMS/300W peak with a sensitivity rating of 92 dB at 2.83 V. The speaker also includes two forms of illumination (center mount and perimeter) for optimal boat lighting at night. Available in white or titanium.

⭐ **www.prospecelectronics.com**

JBL-R3500

The JBL-R3500 is the opener of the all-new WAKE series from JBL Marine. This source unit features AM/FM/WB, 4x55W peak @ 4 ohms, BT5.0, 2-ohm stability, USB input, aux input, and one set of pre-outs. The LCD viewing area is a sizeable 4 inches and the source unit also includes a rotary encoder for a smooth interface. The faceplate measures 6.4 x 2.95 x .4 inches and is IPX6 rated. The sequel, the JBL-R5500 with upgraded features and the same cutout and footprint as the JBL-R3500, will be available shortly.

⭐ **www.prospecelectronics.com**

AUDIO ENTERTAINMENT

JL Audio M7

Extending JL Audio's popular line of M6 speakers is the massively powerful 12-inch M7 marine subwoofer with transflective RGB illumination. Featuring more cone surface area and greater woofer excursion than any other JL Audio marine subwoofer, M7 is able to handle more than twice the power of JL's potent 10-inch M6 subwoofers, proving there is no replacement for displacement. More than powerful, M7 subwoofers are designed to precisely reproduce powerful, high-impact, low-distortion bass and evenly disperse smooth sound in an open-air boat environment. Featuring the same grille design as the M6 line of marine speakers found in numerous new boats around the world, M7 can be seamlessly integrated into any style of boat to add powerful bass.

⭐ **www.jlaudio.com**

Poly-Planar MA-OC6

The Ocean Series of 6.5-inch high-performance, waterproof speakers surround your boat with clear, crisp sound and cool blue light. These two-way coaxial speakers are low profile, waterproof and LED lit. Features include IPX6 waterproof rating; rugged mechanical construction using materials that are resistant to sun, salt and corrosion; independently mounted crossover circuit; 6.5-inch cone; high-power, long-excursion woofer with 35-mm voice coil; and peak power rated at 480 watts per pair. Three-year warranty.

⭐ **www.polyplanar.com**

Simrad/Lowrance/B&G SonicHub 2

SonicHub2 gives users complete control of songs, radio stations as well as video from Lowrance, Simrad and B&G multifunction displays and is also the first marine audio system built on the newly implemented NMEA 2000 audio entertainment protocol. A drop-in replacement for the original SonicHub entertainment system, the enhanced black-box solution provides independent dual-zone control and features built-in Bluetooth audio streaming, dual stereo AUX-IN connections, integrated support for Pandora internet radio via smartphone or tablet without the need for additional hardware, and compatibility with the WM-3 SiriusXM satellite radio/marine weather module (subscription required). SonicHub2 is compatible with both iOS and Android platforms, comes equipped with a video output for USB video playback, has dual USB ports for connecting/charging multiple devices, and includes a built-in AM/FM antenna.

⭐ **www.simrad-yachting.com**

NMEA 2000® CERTIFIED PRODUCTS

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Click on Standards/NMEA 2000 Certified Products

CZone® Digital Switching

Control your boat's electrical system with a single touch

CZone digital switching gives you complete control of all the electrical components on your boat from the touch of a button. Customized modes automatically optimize the boat for specific situations. Whether it's a day of fishing or cruising, CZone simplifies the operation of your vessel. Make your time on the water safer and more enjoyable when you let CZone do the thinking.

Control and monitor pumps, lights, and other electrical systems from dedicated CZone screens, iPad, wireless remote, or select MFDs from one of our integration partners.

Key Fob   CZone® Touch 5   iPad   CZone® Touch 10   MFD

Integration Partners

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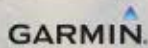
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Optimize Your Ride

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For more information, visit **lencoautoglide.com**

Auto Glide Pitch Correction

Auto Glide Roll Correction

ASG
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AUTOPILOT

B&G Triton²

The B&G Triton² is a smart, multipurpose instrument featuring a full-color display and modern glass helm styling. The display, paired with a Triton² Pilot Controller keypad, is a fully functional control head for compatible B&G autopilot systems. Delivering clear digital instruments and intuitive on-screen menus, the Triton² is designed for use in all conditions. Views of wind data, speed, depth, engine data, autopilot status and more are available at a glance. The LCD panel is optically bonded to its protective glass covering, eliminating the possibility of condensation or fogging within the display. Integrating brilliantly with B&G multi-function displays and glass helm systems, the Triton² can also function as a standalone instrument display and autopilot controller aboard smaller vessels.

⭐ **www.bandg.com**

ComNav P4

ComNav's P4 autopilot is state-of-the-art technology. Its 5.7-inch color display with intuitive menu offers a digital encode switch that makes executing the menus, course changes and adjustments a simple task. Built-in thruster assist feature makes docking in tight spots simple and easy. The P4 is fully compatible with NMEA 0183/NMEA 2000, enhancing its versatility. Add the Legacy Remote expander and use your existing older remotes (101/211/TS202 series), saving several thousand dollars. Field upgradeable using Ethernet.

⭐ **www.comnav.com**

Furuno NavPilot 300

Furuno's NavPilot 300 is ideal for center consoles with outboards or drive-by-wire systems on small- to mid-sized boats. It features a single-DIN, 4.1-inch color LCD and a Gesture Controller. The Gesture Controller allows you to point and shoot in any direction, controlling your vessel's steering from anywhere onboard within 10 meters of the helm. Simply push the button on the Gesture Controller, point to the desired heading, then release the button to let the autopilot redirect the boat. Imagine true point-and-click steering from anywhere on the boat. The NavPilot 300 also includes Furuno's unique Sabiki Mode, which steers the outboards while you are drifting astern, letting you focus on fishing, jigging for bait, or keeping your position while waiting for a drawbridge to open.

⭐ **www.furunousa.com**

Garmin GHP Reactor 40 with SmartPump v2

Garmin's Reactor 40 hydraulic autopilot keeps you on course at cruising speeds, minimizes heading error, reduces power consumption and more, so you can be more comfortable while cruising. Solid-state nine-axis Attitude Heading Reference System (AHRS) sensors provide reliable vessel control in all sea and weather conditions and consistent heading accuracy within 2°. With a complete package designed for powerboats and sailboats, Garmin brings an advanced marine technology to the boating public that was once only available for commercial boats. Experience the ultimate hydraulic autopilot performance when paired with the one-size-fits-most, high-reliability, brushless SmartPump v2 that eliminates the risk of rudder "hard over." Its patented Shadow Drive technology automatically disengages the autopilot if you take the helm and re-engages when you hold a steady course.

⭐ **www.garmin.com**

Octopus G2

Professional solutions for hydraulically steered boats. Reliability and performance in a smaller, lighter, quieter hydraulic reversing gear pump package. Efficiency: smaller gear diameter minimizes oil leakage at bearing faces thus improving volumetric efficiency. Lower power consumption, particularly under demanding conditions requiring higher flow rates equates to a major advantage over competing units. Wide range of options from 600 to 3000 cc/min, 12V and 24V. Cost savings: increased efficiency and performance mean the pumps can be used with smaller autopilot course computers than equivalent drive units. Compact: smaller footprint of the gear pump increases installation flexibility. Suitable for balanced or unbalanced cylinders.

⭐ **www.octopusdrives.com**

Raymarine Evolution EV150

As the newest member of the award-winning Evolution autopilot line, the Raymarine EV150 Hydraulic Autopilot System is engineered specifically to meet the needs of small- to medium-sized hydraulically steered vessels with a steering ram capacity between 4.9 cu. in. (80 cc) and 14.0 cu. in. (230 cc). The system is for 12-volt DC electrical systems only. The EV150 system features all the same Evolution series features that demanding boaters have come to know and appreciate including simple setup and fully automatic calibration. Like its siblings, the EV150 features Evolution TrackIQ algorithms for tighter track-keeping and faster track acquisition. Raymarine's patented Hydro-Balance technology automatically compensates for deficiencies in the boat's hydraulics and adjusts automatically for asymmetrical loads caused by propeller walk and unbalanced steering rams.

⭐ **www.raymarine.com**

SI-TEX SP-120C

The SI-TEX SP-120C autopilot features a compact, rugged housing and full-color LCD display that can be easily viewed from a variety of different angles on open or enclosed helms. This makes the SP-120C an ideal autopilot option for a wide variety of vessels up to 38 feet in length. The color display also provides navigators with a range of useful new graphic presentations, including a Rudder Angle Meter and Compass Steering Display. The SP-120C comes paired with SI-TEX's powerful new nine-axis rate compass for precise course detection and steering control in a wide variety of sea conditions. Virtual rudder feedback eliminates the need for a separate rudder feedback unit and junction box, resulting in a simpler, easier-to-install and more affordable autopilot system.

⭐ **www.si-tex.com**

Simrad NAC-D

Simrad's NAC-D is a steer-by-wire autopilot solution for electronic vessel control systems. With NAC-D, boaters with SeaStar Optimus, Yanmar VC10/JC10, Volvo IPS/EVC or Yamaha helm master/single engine control systems can benefit from all the full features and performance of Simrad autopilots. Easy to install, NAC-D requires only the connection of two Micro-C connectors. There is no requirement for an additional hydraulic pump, rudder sensor installation or dockside rudder calibration. This saves boaters time and money. Featuring Continuum steering and support for SteadySteer, the NAC-D allows automatic switching between two speed profiles, delivering optimal steering performance at both low and high speeds. Users can choose the controller to suit their preference from dedicated controllers like the AP 44 or AP 48.

⭐ **www.simrad-yachting.com**

TOP 155
BOATING ELECTRONICS
BEST & BRIGHTEST
2021 - 2022

ELECTRONIC CHART

C-MAP REVEAL

The high-detail C-MAP REVEAL charts for Lowrance, Simrad and B&G chartplotters include new features like Custom Depth Shading, Shaded Relief for inland waters, subscription-free Easy Routing and more. These C-MAP charts have all the core features needed to make the most of time spent on the water and include coverage for the US and Canada on one card. REVEAL charts offer full-featured vector charts, high-resolution bathymetry, including integrated Genesis social map data and 1-foot contour coverage for 15,000+ US lakes and 9,400+ lakes in Canada. C-MAP REVEAL charts also include premium chart features including seafloor, inland and coastal Shaded Relief. Shaded Relief delivers 3D views of land and underwater elevation, including areas of high-resolution bathymetric imagery.

⭐ **www.c-map.com**

Garmin BlueChart g3 Vision

Experience widespread coverage and brilliant detail when you're on the water. BlueChart g3 Vision coastal charts provide exceptional coverage, clarity and detail with integrated data from Navionics. They also include Auto Guidance technology, which uses your desired depth and overhead clearance to calculate routes and shows a suggested path to follow, overlaid onto your chart. The extended high-resolution relief shading feature—with 100% coverage of the continental US coastline—combines color and shadow to give you an easy-to-interpret, clearer view of bottom structure, making it easy to find artificial reefs, underwater shelves and more. NOAA raster cartography is also available free via ActiveCaptain app. It gives your chartplotter paper chart-like views of NOAA-surveyed areas in which points of interest are labeled with corresponding longitude and latitude.

⭐ **www.garmin.com**
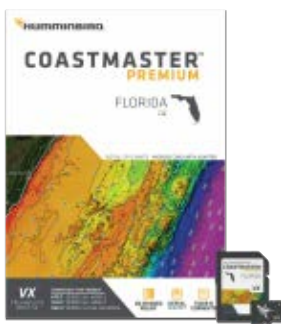
Humminbird CoastMaster Premium-Florida

Find the path to your next big catch with the incredible accuracy and detail of the Humminbird CoastMaster Premium–Florida digital fishing chart. With coverage for all Florida coastal waters on a single SD card, the easy-to-read contours, points of interest and predictive tides and currents data give you tools to identify fish-holding spots. Additionally, CoastMaster Premium delivers nearshore and offshore fishing performance with advanced features like 2D shaded relief, enhanced aerial imagery, and a bottom hardness layer for even more detail. Gain a deeper understanding of the waters you fish with CoastMaster Premium-Florida. Compatible with Humminbird APEX, SOLIX, and HELIX G3, G3N and G4N models.

⭐ **www.humminbird.com**

Maptech Chart Navigator Pro

Chart Navigator Pro by Maptech is a full-featured GPS planning and chartplotting software available on a single, easy-to-load USB flash drive. It provides detailed United States cartography with raster charts, photo charts, topographic maps and 3D contour charts, as well as a full array of software tools to help you plan and enjoy your time on the water. Chart Navigator Pro users benefit from AIS compatibility, chart warping, 3D bathymetric contour charts with 3D navigation aids, and the ability to import and export routes, marks and tracks to an onboard chartplotter.

⭐ **www.maptech.com**

Navionics Platinum+

Navionics Platinum+ charts just got better, with new high-resolution relief shading for US coastal waters now available via download. Relief shading combines color and shadow to present an easy-to-interpret, clearer view of bottom structure than contour lines alone. Designed with demanding boaters and serious anglers in mind, Platinum+ charts are preloaded with the satellite overlay and SonarChart Shading layer, 3D View, and panoramic photos to provide the ultimate situational awareness, while also offering #1 mapping content from combined Garmin and Navionics data, advanced features and daily updates for one year. Choose Platinum+ charts for your compatible GPS plotter to quickly target the best spots and catch more fish. An active subscription is required to download Relief Shading from Navionics.com.

⭐ **www.navionics.com**

Raymarine LightHouse

The next generation of electronic charts has arrived. Raymarine LightHouse Charts offer a top-quality visual presentation, combined with rich detail and accurate navigation from official hydrographic sources across the globe. Choose between a variety of chart styles, matched with color pallets changeable for any time of day. For even more detail, subscribing to LightHouse Premium unlocks data-rich points of interest, high-resolution satellite aerial overlays from Mapbox, and regular chart updates. LightHouse Charts are now available for North America and Europe, with additional titles arriving regularly.

⭐ **www.raymarine.com**

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AIRMAR TECHNOLOGY CORPORATION

ELECTRONIC CHART

Rose Point Coastal Explorer

Rose Point Navigation Systems is happy to announce we now have a full-featured version of Coastal Explorer that runs on iPads and iPhones. The user interface is virtually identical to the one on PCs, so existing users will have no problem using it right away, and new users will find the interface intuitive and clean. The free app allows you to view charts, plan routes, use Active Captain, access tide and current data and more. A subscription allows you to download charts and data for offline use. A user's devices are all connected through their Rose Point account, so they'll seamlessly share routes, marks, events and chart subscriptions. It works flawlessly with the Nemo Gateway.

⭐ **www.rosepoint.com**

TIMEZERO TZ Professional v4

TZ Professional v4 marine navigation software offers cutting-edge bathymetric mapping capacity, allowing fishermen to make and record their own seabed maps as they cover fishing grounds and see them live or review later in 2D and 3D views. Furuno DFF-3D multibeam sonar compatibility makes it possible to overlay high-quality seabed mapping on charts, either as a dedicated view or in an overlay on the plotter. The data is amazingly accurate and allows fishermen to target grounds and identify schools of fish like never before. TZ Professional's many features include Fishing Workspace, AIS and ARPA target tracking capability, Voyage Recorder module as well as C-MAP, Navionics and S-57 compatibility. All TZ Professional features can be configured to users' needs or application.

⭐ **www.mytimezero.com**

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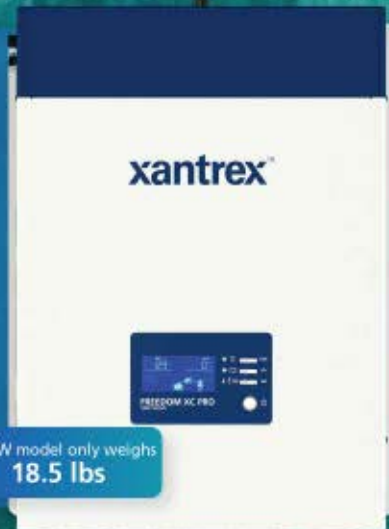
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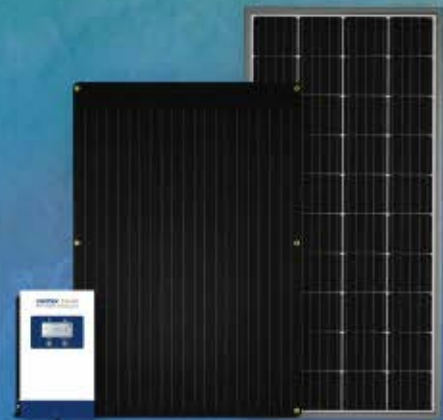
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EPIRB

Emergency Position-Indicating Radio Beacon

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★ www.seasofsolutions.com

Simrad EP70

Simrad's EP70 GPS-EPIRB safety and rescue locator beacons maximize the chances of user survival and recovery by providing rapid notification to rescue authorities of distress situations, enabling them to use satellite location technology with extreme accuracy anywhere in the world. Highly rated by maritime professionals as well as recreational users, the Simrad EP70 range of EPIRBs is designed to be used as a primary alarm for vessels in distress, and when activated, transmit the ID of the ship in distress. The unique high-intensity LED built into the top of the antenna ensures optimal visibility in the toughest conditions.

★ www.navico-commercial.com

A cut above

The Ulysses comes with an industry-leading full replacement warranty policy and unmatched dealer support.

We got your back.

FISHFINDER/SONAR

Furuno DFF3D

You may think you've seen 3D sonar in action, but Furuno's DFF3D Multi-Beam Sonar takes 3D to new depths. We're talking depths of over 980 feet, with side scanning over 650 feet. See fish and bottom structure as you've never seen them before in fantastic detail. The DFF3D turns your TZtouch/2/3 MFD into a multi-beam sonar that sees 120 degrees port to starboard, allowing you to see the depth and direction fish schools are moving while displaying the seabed condition in real time. You can even create and save stunning shaded relief charts on your TZtouch3 with PBG (Personal Bathymetric Generator) of the seafloor. Bottom images are drawn with shaded relief, depth contours, and variable colors, making it easy to identify hidden structure and ridges that hold fish.

★ **www.furunousa.com**

Garmin Panoptix LiveScope

Panoptix LiveScope is an amazing sonar technology—it's live, real-time scanning sonar. See easy-to-interpret live scanning sonar images of structure, bait and fish swimming around your boat, even when your boat is stationary. You get both LiveScope Down and LiveScope Forward modes in one transducer. And you can easily adjust the transducer mode to fit your fishing techniques; use LiveScope Forward to see around your boat, and use LiveScope Down to see directly below it, up to 200 feet for both modes. The view automatically changes on your compatible Garmin chartplotter screen. Attitude Heading Reference System (AHRS) stabilization keeps your sonar view steady, even in rough conditions. Panoptix LiveScope includes a choice of transom/trolling motor mount or thru-hull mount transducer options.

★ **www.garmin.com**

Koden KDS-6000BB

With true broadband technology and high-speed scan rate, Koden's KDS-6000BB Digital Searchlight Sonar is increasingly popular with commercial and sportfishing captains alike. It is the first professional searchlight sonar that lets operators fine-tune output frequency from 130 to 210 kHz in 0.1-kH steps, as easily as tuning a radio dial. This nearly limitless frequency selection allows fishermen to "dial-in" the optimum frequency based on target species, water conditions and range. Six programmable Condition Memory (CM) keys allow for instant recall of favorite setting parameters. Digital Signal Processing delivers high-resolution presentation of forage and fish targets at closer ranges, while reducing display noise when operating at longer ranges. Available in 15° and 20° scanning sector angle steps and four presentation modes, which makes the KDS-6000BB even more powerful.

★ **www.si-tex.com**

Lowrance ActiveTarget

The high-resolution ActiveTarget Live Sonar system reveals live-action views of fish moving in and around structure as they respond to lure presentations. This new technology delivers top-of-the-line live sonar functionality to the HDS LIVE Ultimate Fishing System, as well as HDS Carbon and Lowrance's recently introduced Elite FS displays, bringing ActiveTarget Live Sonar capability to a wider range of displays and pricing options. Offering three viewing options, ActiveTarget can be set to Forward, Down or Scout mode. Forward and Down views allow anglers to track fish in front of or below the live sonar transducer, and Scout mode delivers an ultra-wide, overhead view of structure and fish activity in front of the transducer, ideal for finding bait balls and big schools of fish.

★ **www.lowrance.com**

Onwa KM-Sonar

The Onwa KM-Sonar is a black box fishfinder, in effect an accessory that links to existing Onwa MFDs or use PC software to enable fishfinder functions. The Onwa KM-Sonar requires a transducer connected to the unit for full functionality. The operating frequency is 50 and 200 kHz with a transmitting output power of 1 kW RMS. The wide input supply voltage, 10.5-32 VDC, is suitable for a range of vessel types.

⭐ **www.onwamarine.com**

Raymarine RVX1000 3D CHIRP

The RVX1000 3D CHIRP sonar module offers owners of LightHouse 3 Raymarine eS-Series, gS-Series and Axiom XL multifunction displays access to the same RealVision 3D and powerful 1-kW CHIRP offshore sonar found in our Axiom Pro models. The RVX1000 black box sonar module is a versatile, five-channel sonar solution for both inshore and offshore fishing. Connect any RealVision 3D transducer and gain instant access to CHIRP SideVision, DownVision, high-frequency CHIRP and amazing RealVision 3D sonar. RVX1000 also features a second transducer connector to support its 1-kW high-power CHIRP sonar with low, medium and high bands. Select from a wide array of Airmar broadband CHIRP transducers to tailor the sonar experience to your boat and type of fishing.

⭐ **www.raymarine.com**

SI-TEX SCS-1000

The new SI-TEX SCS-1000 CHIRP echosounder module turns popular NavPro chartplotters into high-performance, feature-packed CHIRP echosounders. This waterproof, shock-resistant module works with various thru-hull or in-hull transducers from Airmar or Radarsonics. Integration with Airmar transducers enables Xducer ID detection that automatically selects the power output and configures the sounder parameters to suit the individual transducer. Features include advanced filtering to eliminate unwanted noise and sharpen target separation for a clean and detailed display. The SCS-1000 also provides single- or dual-frequency operation, zero line rejection, alarms for temperature, shallow and deep water, and echogram history. The Point on Map function allows users to place a mark on the echogram, then later find it on the map for further investigation.

⭐ **www.si-tex.com**

Transducer

Airmar B275LHW

Airmar's B275LHW dual-frequency 1-kW CHIRP-ready transducer delivers excellent resolution, bottom discrimination, and bait and game fish separation at depths to 3,000 feet. The high-frequency band operates across a range of 150 to 250 kHz and has a wide fixed 25° beamwidth, resulting in superior resolution to 500 feet and twice the coverage of comparable narrow-beam transducers, making it ideal for pelagic fishing. The low-frequency band (42 to 65 kHz) features a 25° to 16° beamwidth, providing greater depth range for impressive deep-water performance in finding species such as swordfish. The B275LHW's dual-frequency capability and power output means that no matter where you decide to fish, shallow or deep, you've got the best frequency combination on board.

⭐ **www.airmar.com**
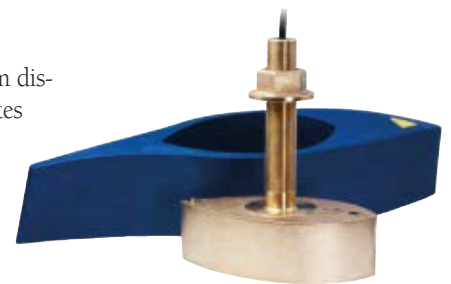
GATEWAY

Connecting Networks

Actisense NGT-1 (NMEA 2000 to PC)

The NGT-1 is an intelligent NMEA 2000 gateway able to precisely transfer messages between the NMEA 2000 network and a computer, while acting as a firewall, enforcing the rules to keep the network safe. It is compatible with a wide range of chartplotter, display and configuration applications available for both Windows and Mac PCs. NMEA Reader, the Actisense diagnostic tool, allows full decoding of NMEA 2000 messages and configuration of NMEA 2000 products from Actisense and other manufacturers. Available in two variants that offer full opto-isolation to suit all installation types: The USB version keeps a computer safe from dangerous ground loops while offering easy connection. The ISO version protects while safely interfacing to an RS232- or RS422-capable device.

Actisense NGW-1 (NMEA 0183 to NMEA 2000)

The NGW-1 provides an uncomplicated link between a boat's data networks, effortlessly converting NMEA 0183 data into NMEA 2000 data and vice-versa. Multiple NGW-1 units can interface NMEA 0183 devices to the NMEA 2000 network, using the power of an NMEA 2000 backbone to combine and share data between all devices. Use Actisense's free NMEA Reader software to view and understand (in detail) the translated NMEA 0183 sentences output by an NGW-1, with the largest collection of trusted NMEA conversions available. The latest firmware offers a two-click AIS, Standard or Fast Heading configuration option, plus fine control over every aspect such as the baud rate and much more. Remote configuration (and diagnostics) is also possible using the Actisense NGT-1 to significantly reduce installation time.

⭐ **www.actisense.com**

Digital Yacht LANLink

LANLink provides NMEA 0183 or NMEA 2000 to Ethernet connectivity. Connect your boat's NMEA networks to Wi-Fi routers with a simple RJ45 wired connection and distribute data over Cat 5 networks. NMEA-certified iKonvert NMEA 2000 interface included.

⭐ **www.digitalyachtamerica.com**

Kvaser U100

The new Kvaser U100 is a robust, single-channel CAN/CAN FD to USB interface. Compatible with CANopen, NMEA 2000, J1939 and DeviceNet, its reinforced galvanic isolation, IP67-rated vibration, shock and drop-proof housing and high-quality cabling are ideal for marine environments. Whether you are developing a CAN-based marine network or diagnosing problems in one, the Kvaser U100 is a CAN connection you can rely on. Innovations include two high-vis LED bars showing CAN traffic status at a distance. Cable replacement can be carried out by an authorized Kvaser party without compromising IP67 integrity, reducing cost over the product's lifecycle and enabling fast delivery of custom configurations. The Kvaser U100 has a nine-pin D-SUB connector. J1939-13 Type II, M12 and OBD-II connectors are coming soon.

⭐ **www.kvaser.com**

Maretron J2K100

Maretron's J2K100 gateway attaches directly into J1939 networks of compatible engines, transmissions, and gensets and converts the J1939 engine data to the NMEA 2000 marine digital interface. Critical engine, transmission, and genset data is then distributed throughout the vessel over a single cable where it can be monitored by any NMEA 2000-compatible display. The J2K100 only listens to the J1939 network and draws no power from it (power is derived from the NMEA 2000 interface). The J2K100 can also be used as part of a complete fuel computer. Simply connect the J2K100 to a Maretron universal display (DSM Series or TSM810C) or N2KView and a GPS antenna/receiver (GPS200) to create a system capable of displaying gallons per hour and/or miles per gallon.

⭐ **www.maretron.com**

Onwa KM-Router

The Onwa KM-Router is a Wi-Fi and Ethernet router that provides the same functions as a regular home router. It can be used with equipment like a PC and with other brands of equipment. It has one WAN port, four LAN ports, one serial port and one Wi-Fi port. The router can convert serial signals to network signals, has a high data processing ability, supports 150 Mbps and is suitable for any kind of vessel. The KM-Router supports input supply voltages from 10.5 to 32 VDC. The KM-Router gateway can be used to share radar or fishfinder network data between two Onwa MFDs.

⭐ **www.onwamarine.com**

ShipModul MiniPlex-3

ShipModul's MiniPlex-3 Series of NMEA 0183 multiplexers combines data from multiple navigation instruments. Through an advanced filtering and routing system, this data can be sent to other navigation instruments and to computers, tablets and smartphones. A bi-directional SeaTalk1 interface enables conversion between SeaTalk1 data and NMEA 0183 sentences. This conversion works both ways, allowing the MiniPlex-3 to replace Raymarine's SeaTalk-NMEA bridge. MiniPlex-3 models with an NMEA 2000 interface (-N2K suffix) connect directly to an NMEA 2000 backbone and convert between NMEA 2000 PGNs, NMEA 0183 sentences and SeaTalk1 datagrams in all directions. Bi-directional computer interfaces offer connectivity via USB, Ethernet or Wi-Fi, all at the NMEA 0183 level. Two special NMEA 0183 sentences offer translation to and from raw NMEA 2000 or SeaTalk data.

⭐ **www.shipmodul.com**

MFD

Multifunction Display

B&G Nemesis

Nemesis is the next generation of intelligent sailing data displays offering top-quality visibility, with complete customization or easy-to-use, pre-set, multifunction templates and automatic dashboards based on the point of sail. A bright IPS SolarMax HD touchscreen, with super-wide viewing angles provides the ability to view with polarized sunglasses from anywhere onboard. With adjustable data sizes, palettes and backlighting, Nemesis offers optimal viewing in all conditions, whether on the mast or in the cockpit. The all-in-one customizable display can be mounted in either portrait or landscape orientation and the easy-to-use drag and drop editor provides a wide choice of graphical gauges, SailSteer, tank levels, digital data, IP camera views, histograms and images.

⭐ **www.bandg.com**

Furuno NavNet TZtouch3 TZT19F

Furuno's NavNet TZtouch3 is available in the 19-inch TZT19F multi-touch MFD. Features include a powerful quad-core processor for lightning-fast response, a built-in dual-channel 1-kW TruEcho CHIRP & CW fishfinder, edge-swipe features, and single-tap menu options, so you're never more than a tap or swipe away from what you want to do. Furuno's PIN code lock allows you to require a four-digit password on startup, keeping your data safe against theft. TZtouch3 utilizes Furuno's award-winning network sensors, such as solid state Doppler radar, DFF3D multi-beam sonar with PBG (Personal Bathymetric Generator), AIS, instruments, engine data, and more. NavNet TZtouch3 is also available in the 16-inch TZT16F and the 9-inch and 12-inch TZT9F and TZT12F with hybrid control.

⭐ **www.furunousa.com**
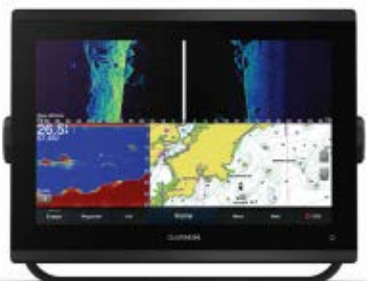
Garmin GPSMAP 1243xsv

Get a sharper view from your connected helm with the GPSMAP 1243xsv chartplotter. With its high-resolution 12-inch in-plane switching display, ultra-sleek design and vivid sonar color palette, it seamlessly integrates into your Garmin marine system. It also features built-in ultra high-definition SideVü and ClearVü scanning sonars and supports 1-kW CHIRP traditional sonar as well as fully networkable radar and Panoptix LiveScope sonar devices. Preloaded BlueChart g3 coastal charts and LakeVü g3 inland maps give you the best of Garmin and Navionics data—plus Auto Guidance technology. Easily build your marine system, from compatible sonar and autopilots to compatible radar, cameras and multimedia, using HTML 5.0, NMEA 2000 and NMEA 0183 network connectivity, J1939 for engines and the Garmin Marine Network.

⭐ **www.garmin.com**

Humminbird APEX 13 MEGA SI+

The APEX 13 MEGA SI+ chartplotter by Humminbird provides exceptionally clear sonar imaging. MEGA Imaging+ and Dual Spectrum CHIRP sonar come standard, with even more performance from a dedicated sonar channel for accessory 2D CHIRP transducers, up to 2 kW. See everything clearly on a 13.3-inch full-HD touchscreen display that provides a customized arrangement of information from advanced networking options like NMEA 0183/2000, HDMI In/Out, Wi-Fi and Bluetooth. Add the power of the One-Boat Network to integrate the accuracy of Humminbird Digital GPS charts, boat control from Minn Kota, and reach new depths with wireless control of Cannon Optimum downriggers. The APEX 13 MEGA SI+ chartplotter will take your fishing to a new level.

⭐ **www.humminbird.com**

Lowrance Elite FS

The Elite Fishing System (FS) combines a full lineup of fishfinding tools with a display that is easy to use and install. From new, high-resolution ActiveTarget Live Sonar and Active Imaging with Lowrance CHIRP Sonar, SideScan and DownScan Imaging to preloaded C-MAP Contour+ Fishing Maps, Elite FS offers anglers all the tools needed to find and catch more fish. Elite FS displays include full networking capability with Ethernet and NMEA 2000 connectivity and integrated wireless, making it easy for anglers to create a complete system that fits the way they fish. Add HALO Dome Radar, Outboard Pilot or share sonar, charting, waypoints, and other user data between multiple displays via Ethernet.

⭐ **www.lowrance.com**

Maretron TSM810C

The TSM810C is a dedicated 8-inch touchscreen with N2KView vessel monitoring and control software that allows you to configure favorite screens with exactly the information you want to see from anywhere on the vessel. The display includes two USB ports for connecting keyboards, mice, or trackballs, and an Ethernet port for connecting IP cameras for viewing within N2KView. The unit's solid-state disk drive withstands pounding associated with waves and only dissipates 10 watts (no need for internal cooling fans that are noisy and wear out, causing electronics to overheat and fail). The TSM810C can be mounted outside (TFT LCD screen and waterproof front) and contains two completely isolated CAN bus connectors (M12) for easy connection to single or redundant NMEA 2000 networks.

⭐ **www.maretron.com**

Onwa KMulti

The new Onwa KMulti Series of MFDs showcases additional navigational functions compacted in one unit. The KMulti Series has two screen size options: 8 and 12 inches. The 12 inch also has a touchscreen variant, which is Onwa's entry into touchscreen displays. KMulti series-compatible charts are K-Chart 2.0, K-Chart 3.0, C-Map Max and Navionics+. Apart from standard navigational functions such as Class B+ AIS transponder, fishfinder and radar, the KMulti also displays gauge screen and CCTV screen. It has user-defined screen modes (Dual, Tri and Quad) depending on the user's preference and a built-in HDMI feature to connect to a bigger screen. The KMulti supports dual NMEA 2000 and NMEA 0183 interfaces.

⭐ **www.onwamarine.com**

MFD

Multifunction Display

Raymarine Axiom XL 24

The Axiom XL 24 is the pinnacle of Raymarine navigation and modern helm integration. Designed for glass bridge installations, Axiom XL 24 offers top performance, large format visibility and elegant simplicity. Every model in the Axiom XL lineup uses IPS display technology and optical bonding to deliver wider viewing angles, sharp contrast, and top readability in bright sun. Edge to edge glass construction gives vessel designers the ability to create integrated and elegant helms with a sleek, modern appearance. More than just a big MFD, Axiom XL 24 is also a powerful, super-bright HDMI monitor and repeater. It supports HDMI input and output, along with touch control input and output, making integration of other onboard systems easy.

⭐ **www.raymarine.com**

SI-TEX NavPro

New NavPro Series MFDs are now compatible with Navionics Platinum+ cartography, enabling a wide range of advanced navigation, fishing and cruising features on their high-resolution 9- and 12-inch LCD displays. NavPro comes bundled with free Navionics+ cartography that features advanced dock-to-dock Autorouting along with SonarCharts and SonarCharts Live. Adding optional Navionics Platinum+ cartography unlocks a range of additional features like 3D View, Panoramic Photos, Satellite Image Overlay w/SonarChart Shading, Relief Shading and more. Boaters will also be able to access the Platinum+ SonarChart detail, innovative 0.5-meter bathymetric charts created using proprietary data, and SonarChart Live, which lets anglers create their own contour maps using live data collected by the NavPro's CHIRP sonar. Easily integrates with SI-TEX's wireless Wi-Fi MDS-12 network radar.

⭐ **www.si-tex.com**

Simrad NSS evo3S

The Simrad NSS evo3S allows users to experience unprecedented levels of built-in functionality under all conditions using charts, radar, sonar and more. With a built-in GPS receiver and high-performance sonar, upgraded charting, support for HALO dome and open-array radars, as well as a range of Simrad autopilot systems, nearly all in-water activities are covered. Industry-standard connectivity makes it easy to create multi-display systems and link displays to all onboard electronics. The new iMX 8 high-performance processor ensures engine and fuel monitoring in real-time, control of onboard sound systems and much more. Systems can easily be expanded by adding Simrad modules and accessories, including the S5100 CHIRP Sonar, Active Imaging and ActiveTarget Live Sonar, HALO Pulse Compression radar and fully integrated Simrad autopilot.

⭐ **www.simrad-yachting.com**
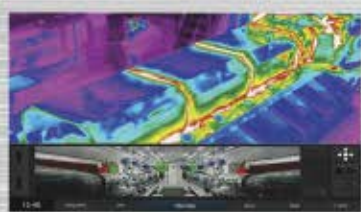
TOP 155
BOATING ELECTRONICS
BEST & BRIGHTEST
2021 - 2022

NIGHT VISION

FLIR M364C

Featuring a high-definition low-light camera and one of the most advanced FLIR thermal imaging cores ever, the M364C provides an elite level of awareness on the water. M364C uses multispectral imaging to deliver exclusive FLIR Color Thermal Vision (CTV) technology. CTV blends visible camera details with a thermal image, overlaying vital color imagery that allows captains to positively identify navigation aids and other vessels within the thermal scene. Outstanding imaging performance, intelligent object recognition technology, and enhanced gyro-stabilization make the M364C an indispensable tool for law enforcement professionals, commercial mariners, and serious recreational boaters.

⭐ **www.flir.com**

GOST Watch HD H20 XVR 4G

The GOST Watch HD H20 XVR 4G all-in-one video surveillance system is designed to remotely stream and record thermal and IR-illuminated camera recordings in real time. Designed for law enforcement and fire boats, the GOST Watch HD H20 XVR 4G is enclosed in a fiberglass case that offers IP67 waterproof and impact-resistant protection and also makes installation simple. Within the case is a high-speed 4G LTE data communicator that can stream up to eight analog or IP 1080P cameras to the newly released GOST Watch HD XVR 4G app. It also has a redesigned GUI (Graphical User Interface) when connecting locally over an HDMI/local network. The built-in expanded 4-TB hard drive records and stores up to 90 days of footage per camera. The XVR is compatible for full remote PTZ (Pan-Tilt-Zoom) control of FLIR M300, M400 and M500 cameras.

⭐ **www.gostglobal.com**

Iris Sentinel

Available in a number of models depending on your requirements and your budget, and available also in a range of colors to suit your application, Iris Sentinel cameras take their style cues from Iris's popular NightRunner range and build them into a far more robust cast, anodized and powder-coated aluminum housing. Everything about the Sentinel range has been subject to a major overhaul, improving motor strength, internal temperature management, repositioning connectors centrally to simplify installation and much more. There are currently two thermal resolutions to choose from (384×288 and 640×512) with a higher resolution IP device in the pipeline featuring Augmented Reality built into the camera. Cameras are available as either single-payload or in dual-payload formats, pairing up the thermal core with a high-quality daylight camera.

⭐ **www.boat-cameras.com**

Omnisense Systems Ulysses Micro

As a new entrant into the US market, Omnisense Systems has launched a line of premium marine night vision cameras. The Ulysses 'micro' series single payload cameras come in three different variants with superior image and build quality to rival the best in the market. The Ulysses works with virtually all modern MFDs, including touchscreen control, optional joystick, and via app on mobile devices. The Ulysses 'micro' even has customizable LED lights to personalize the camera's appearance. The feature-packed base model Ulysses 'micro' is competitively priced. The 'micro-S' and 'micro-S+' come with many powerful features that include two-axis gyro-stabilization and radar slave that allow for easy identification of objects on the radar screen. Look for the upcoming dual payload Ulysses 'mini' series.

⭐ **www.omnisense-systems.com**

PERSONAL SURVIVAL DEVICE

Garmin GPSMAP 86sci

Cast off confidently with the GPSMAP 86sci. This premium, floating handheld has a sunlight-readable 3-inch color display and preloaded BlueChart g3 coastal charts with integrated Navionics data. Stay in touch anywhere with inReach satellite communication capabilities, two-way text messaging and interactive SOS. Share your position using GPS-based location tracking. Wireless connectivity makes GPSMAP 86sci a virtual extension of your onboard marine system, displaying boat data from compatible chartplotters and instruments. It also functions as a remote control for convenient operation of your Garmin autopilot and Fusion marine products. Its adjustable GPS filter smooths speed and heading indications over swells. The internal, rechargeable lithium battery provides up to 35 hours of operation in 10-minute tracking mode and up to 200 hours in expedition mode.

⭐ **www.garmin.com**

McMurdo FastFind RLS

The world's first PLB to offer the Return Link Service (RLS) reassurance signal back to the user, confirming with a blue flashing light the receipt of your distress call and that the user's location is known. The FastFind Return Link uses the familiar false alert three-stage activation process, but has added a new pouch and belt clip design and includes the global location accuracy of combined GPS and Galileo GNSS receivers to ensure greater global coverage and accelerated location detection.

⭐ **www.seasofsolutions.com**

RADAR

Furuno DRS25ANXT

The DRS25ANXT is a 200-watt solid-state radar with pulse compression and Doppler frequency shift sensing technology with open array antenna options ranging from 3.5 to 6 feet. Designed for NavNet TZtouch, TZtouch2, and TZtouch3 MFDs, the DRS25ANXT along with the 100-watt DRS12ANXT are packed with features. Target Analyzer clearly shows hazards, changing the color of dangerous targets approaching your boat to red. Green echoes are stationary targets or targets approaching your vessel at fewer than 3 knots. Echoes dynamically turn red when targets are approaching at a speed of 3 knots or faster. It works the same when you're following another vessel. Also, Target Analyzer works independently of your vessel's speed.

⭐ **www.furunousa.com**

Garmin GMR Fantom 254

GMR Fantom 254 is Garmin's most powerful 4-foot solid-state radar, featuring 250 watts of power. It uses MotionScope technology to detect and highlight moving targets in different colors, which helps you avoid potential collisions, find flocks of birds and track weather. New MARPA Automatic Acquisition allows for triggering and tracking with no user prompting on all returns, boundary zones, guard zones or MotionScope. Scan-to-scan averaging, a new feature, helps aid in reduction of sea clutter and interference. Its pulse compression technology provides high-resolution imaging and maximizes energy to help you detect and identify targets. Auto Bird Gain helps you identify flocks of birds on the water. The GMR Fantom 254 radar has a detection range of 20 feet to 96 nautical miles.

⭐ **www.garmin.com**

Koden MDC-5200

The Koden MDC-5200 Series radar from SI-TEX Marine Electronics delivers professional-grade performance for a wide range of vessels. With available output power ranging from 4 to 25 kW and maximum range scales up to 96 nm, this radar is built for professional operators in challenging conditions. Features include built-in AIS interface for displaying up to 1000 targets, built-in ARPA tracking of up to 100 targets, comprehensive ship's data display and C-MAP chart overlay (with optional SD card). Koden's Clear Image feature provides high-speed sampling in the short range for precise target acquisition and tracking, while Auto Gain and Auto STC settings allow for easy operation. The 12.1-inch high-resolution XGA display with anti-reflective coating provides clear viewing in any environment.

⭐ **www.si-tex.com**

Onwa KRA-1007_N

The Onwa KRA-1007_N is a low-cost, reliable and high-quality independent radar antenna that can be used with Onwa MFDs or connected directly to a PC or wirelessly through a home router. The KRA-1007_N can display radar targets using a PC with Onwa radar PC software. Using the unit with Onwa MFDs enables the radar function for target interpretation. The antenna uses digital radar target technology, sports fully digital signal processing and built-in sea and rain clutter algorithms. It shares the same protocol with all Onwa magnetron pulse radar antennas. The range reaches to 36 nm, operating at X-band frequency with an output power of 4 kW.

⭐ **www.onwamarine.com**

Raymarine Quantum 2

Quantum 2 is the latest generation of Raymarine's popular Quantum CHIRP radar, now made even better with the addition of Doppler target processing. Quantum 2 instantly highlights moving radar contacts and color codes them to indicate whether they are inbound or outbound. Boaters will enjoy vastly improved situational awareness and confidence at the helm. Like its predecessor, Quantum 2 uses CHIRP pulse compression technology for superior target detection at both short and long ranges. Integrated Wi-Fi and thin cabling simplify installation plus Quantum's energy efficient and lightweight design provide safe radiated emissions and substantially reduced power consumption.

⭐ **www.raymarine.com**

SI-TEX MDS-12

The SI-TEX MDS-12 provides high-resolution digital radar for the popular NavPro 900 and NavPro 1200 Series MFDs. Wireless Wi-Fi integration makes it easy to install and rig this 4-kW, 24-inch radome on any type of vessel, giving navigators 36 nautical mile range with superior target resolution. The MDS-12's slotted-wave-guide-antenna design and digital signal processing ensure excellent target definition, as well as separation between closely spaced targets. With a full range of professional-grade features and the ability to integrate with the NavPro's 9- or 12-inch high-resolution color LCD displays, the MDS-12 is an excellent option for power boats and sailboats of all sizes. Backed by SI-TEX's two-year limited warranty.

⭐ **www.si-tex.com**

Simrad HALO20+

Ideal for a wide range of boats, the Simrad HALO20+ comes in a compact dome antenna and delivers high-quality short-, mid- and long-range detection. HALO20+ radar delivers a full 360° sweep every second, thanks to its 60 RPM rotation at ranges up to 1.5 nautical miles. These ultra-fast updates give boaters an almost real-time view at close range, offering the ultimate view for collision avoidance of fast-moving targets. Boaters can monitor two distance ranges at once in Dual Range mode, allowing them to keep an eye on distant weather cells while watching for collision hazards nearby. Simrad HALO20+ radar's pulse compression technology means no compromises in detection at either selected range, while beam sharpening provides enhanced separation between small or distant targets.

⭐ **www.simrad-yachting.com**

Radar Mount

Seaview PMA57M1/ADAR1

Seaview's 6-inch aft-leaning radar mount (PMA57M1 and ADAR1) just got even better with the new self-draining waterproof base and compact LTBSF4 add-on light bar. The light bar will adapt to the aft-raked mount to clear 18-24-inch closed dome radars (with the exception of the Raymarine RD424). The top of the light bar will support most thermal cameras or spotlights (with the exception of the FLIR M300c, M332, M364, and M364C). The LTBSF4 can be added during the initial installation or adapted later if needed. A navigation light or other light bar top can then be purchased separately for the top of the LTBSF4.

⭐ **www.seaviewglobal.com**

SATELLITE TV & COMMUNICATION

Internet/Phone/Data (small-boat satcom)

Intellian C700

The C700 provides reliable phone and data services wherever you need to be. The terminal connects to the Iridium Certus network of Low-Earth Orbit (LEO) satellites, providing pole-to-pole communication. With its top-quality RF performance, the C700 can deliver uplink speeds of 352 Kbps and downlink speeds of 704 Kbps, with impressive low-elevation-angle RF efficiency thanks to its unique 12-patch phased-array solid-state antenna design. It supports three high-quality, low-latency phone lines simultaneously. The C700 is especially robust, requiring no scheduled maintenance over its lifetime. The C700 can stand alone or function as a VSAT companion. The combination of traditional VSAT Ku-band and the C700 system will guarantee a seamless connection wherever you are. Available as a bulkhead mount unit or ready to be mounted in a 19-inch rack.

⭐ **www.intelliantech.com**

KVH TracPhone V30

KVH's new TracPhone V30 is an ultra-compact Ku-band VSAT antenna delivering data speeds as fast as 6 Mbps download/2 Mbps upload so boaters can experience all the benefits of internet at sea. Measuring 37 cm (14.5 inches) in diameter, the TracPhone V30 provides ease of installation and retrofit with a single power-data coax cable, and utilizes DC power, a plus for small boats with a limited power supply. Unlike other KVH VSAT systems, the TracPhone V30 has the modem in the dome, a feature KVH engineered to deliver outstanding reception with improved signal efficiency. A streamlined belowdecks unit, called the VSAT-Hub, provides state-of-the-art HTS modem connections, built-in Wi-Fi, data routing, firewall security, and a VoIP adapter for phone calls.

⭐ **www.kvh.com**

SAT TV

Intellian s6HD

Get DirecTV high-definition channels on your boat in all sea conditions. The s6HD incorporates Intellian's proprietary iQ² technology, which Intellian says guarantees boaters the fastest signal acquisition and most rock-solid reception. The s6HD is lightweight, has a wide elevation angle (5°-90°) and boasts a next-generation alignment control system that delivers seamless, uninterrupted satellite reception for boaters travelling throughout US waters. With its Single Wire Multi-switch (SWM), the Intellian s6HD enables up to 16 receivers to view all DirecTV HD channels, with the possibility to upgrade to 32 SWM receivers. Features include: fully automated system, enhanced antenna for dual bands, quick & quiet technology, Wi-Fi-enabled antenna control unit, built-in GPS and NMEA 0183 interface, lightest HD antenna available at less than 49 pounds and three-year global warranty.

⭐ **www.intelliantech.com**

KVH TracVision TV3

With its single-cable design, compact 37-cm (14.5 inch) antenna, and device-friendly user interface, the NMEA award-winning TracVision TV3 satellite TV system is a snap to install, set up, and use. In no time, boaters can enjoy favorite television programming while on the water. Plus, the DVB-S2-compatible TracVision TV3 is the ideal solution for single- or multiple-receiver installations. Features include: compatibility with high-powered Ku-band satellite TV services around the globe for favorite satellite TV entertainment; high-performance tracking with advanced algorithms for a crystal-clear television picture in heavy seas; single coaxial cable for power, data, and video-enabling easy installations and retrofits.

★ **www.kvh.com**

VSAT

Intellian v45C

Fast internet on your boat has never been more accessible. The v45C is a compact 45-cm, 50-pound Ku-band system that is designed to deliver enhanced connectivity to smaller boats and vessels, ideal for fishing and leisure boats. This antenna offers exceptional value and performance within the space constraints onboard. Easy installation with a single coaxial cable connected outside of the radome. The advanced design ensures optimal performance on both HTS and wide-beam Ku-band satellites. The v45C antenna is qualified for the Intelsat FlexMaritime network or another Ku-band service provider of your choice. This antenna also interfaces with Intellian's Aptus NX software, ensuring ease of operation onboard as well as access to remote support whenever it's needed.

★ **www.intelliantech.com**

KVH TracPhone V7-HTS

Boaters can enjoy fast data speeds, global coverage, HD streaming, popular social apps, and other benefits of connectivity for a new era of digital life at sea with KVH's TracPhone V7-HTS marine satellite communications antenna system. This advanced 60-cm (24 inch) system delivers data speeds of 10 Mbps download/3 Mbps upload via KVH's mini-VSAT Broadband HTS network and is offered with hybrid airtime for unlimited use and high-speed data channels running at the same time so everyone onboard is always connected. For worry-free connectivity, KVH includes network-level firewalls with automated cyber threat management for every user on the network. Best, KVH provides 100% transparency into data use with pow smart data tools for high-performance control over usage.

★ **www.kvh.com**

SATELLITE COMPASS

B&G ZG100

The B&G ZG100 GPS antenna provides precise and dependable position data, making it the ideal partner for B&G chartplotters and instrument systems. The highly accurate 10-Hz GPS gives precise and smooth update of position information during acceleration and maneuvering, rapid signal acquisition and consistent position accuracy augmented by secondary satellite systems like WAAS, EGNOS, MSAS and Galileo. It is also QZSS-ready. The integrated compass delivers accurate heading information for instruments and chart stabilization for Head Up mode and radar overlays. It also provides heel and trim data for sailing. Please note this product is not suitable for use with MARPA or B&G Pilot systems, which require a rate compass such as the Precision-9, RC42 or Halcyon Gyro-Stabilized Compass.

⭐ **www.bandg.com**

ComNav G3

The G3 GNSS system is type approved and comes with a G2 compass antenna and color display. Fully compatible with NMEA 2000, the G3 provides accurate and stable headings for autopilot, radar, AIS, ECDIS, chartplotters and more. Differential GPS supports SBAS (Satellite-Based Augmentation System) and ground beacon correction service for precise position data. Field upgradeable using included ComNav Desktop Utility software.

⭐ **www.comnav.com**

Digital Yacht GPS160N2K

Latest TriNav GPS, Galileo and GLONASS GNSS sensor with ultra-fast 18-Hz output provides synthetic heading information for systems like AIS and MARPA radar systems that require a compass input. User programmable for a variety of outputs including position, course, speed and heading.

⭐ **www.digitalyachtamerica.com**

Furuno SCX20

The NMEA 2000 SCX20 satellite compass has raised the bar for multipath mitigation, accuracy, and reliability, thanks to what Furuno calls Baseline Target Architecture. The four-antenna array of the SCX20 is configured in a manner that creates six unique baselines from which to calculate accurate heading information, even in severe environments. The compact size, flexible mounting capabilities, and unique quad-antenna design of the SCX20 make the unit capable of calculating precise heading, pitch, roll, and heave information, even when line of sight is limited to only a single satellite. Having multiple baselines makes the SCX20 the right heading solution for even the most challenging of vessel installations. It is an ideal match for your NavNet TZtouch2 or TZtouch3. Also available is the NMEA 0183 version, the SCX21.

⭐ **www.furunousa.com**

Garmin MSC 10

Know exactly where you're headed with the Garmin MSC 10 marine satellite compass. Easily install this GPS-based heading sensor with a fully integrated attitude and heading reference system for better GPS heading at high speeds. The multi-band GNSS (L1 and L5 GPS) receiver enables position accuracy to within 1 meter. Plus, the GPS-based compass won't be impacted by magnetic interference. It can even deliver boat heave information to your chartplotter via the NMEA 2000 network. You can also use the MSC 10 as the primary sensor for autopilots and all your onboard systems that need accurate heading information.

⭐ **www.garmin.com**

Koden KGC-300

Koden's KGC-300 is an IMO-approved THD (Transmitting Heading Device) that provides highly accurate (0.5°) heading, position and speed data, along with stable and fast tracking capabilities for use in the most challenging conditions and operating environments. The KGC-300 is Satellite Based Augmentation System (WAAS/EGNOS)-enabled for superior positioning accuracy when professional mariners need it most. It features a built-in backup sensor and three heading data output ports (expandable to five ports) for integration with a range of bridge systems. Data is presented on an easy-to-read 4.3-inch color LCD that offers a variety of screens, including Heading Graph display, Rate of Turn display and Nav Data display. This advanced GPS compass is designed to provide professional navigators with the utmost in accuracy and safety.

★ **www.si-tex.com**

Lowrance Point-1

The Lowrance Point-1 provides extremely accurate and rapid boat position and speed updates. In addition, unlike other position-only antennas, the Point-1 provides heading for accurate boat direction at any speed and for radar/chart overlay. The Point-1 easily connects to any HDS Gen2, HDS Gen2 Touch or Elite-7 display or any NMEA 2000 network. It is fully waterproof and can be pole or surface mounted on any boat.

★ **www.lowrance.com**

Onwa KEC-30G

The Onwa KEC-30G is an affordable, high-accuracy digital electronic compass with GPS (pitch and roll functions) that can be interfaced with other nav equipment such as radar, AIS, Onwa MFDs, etc. and can correct magnetic deviation manually or automatically. When used with Onwa Marine Heading Sensor KA-GC9A or Hemisphere GPS compass V104S, it provides heading as well as GPS data, lon/lat, SOG/COG and pitch and roll. The KEC-30G supports an NMEA 0183 interface.

★ **www.onwamarine.com**

SI-TEX V200

The new SI-TEX V200 GPS satellite compass optimizes accuracy and performance for today's most advanced marine electronics systems. The multi-GNSS V200 features a 424-channel receiver that uses all known satellite systems, including GPS, GLONASS, Galileo, BeiDou and QZSS; optional Atlas GNSS global correction service provides sub-meter 30-cm (11.8-inch) RMS accuracy. The 13.7-inch antenna provides 0.75° heading accuracy and onboard spectrum analysis for excellent in-band and out-of-band interference rejection. Integrated gyro sensors deliver fast heading reacquisition, smooth heading readings and reliable 1° per minute heading for up to 3 minutes after temporary loss of GPS. Built-in tilt sensors provide pitch, heave and roll data. Features 60-second cold-start acquisition and 100° per second maximum rate of turn. Available in both NMEA 2000 & NMEA 0183 versions.

★ **www.si-tex.com**

SATELLITE COMPASS

TOP 155
BOATING ELECTRONICS
BEST & BRIGHTEST
2021 - 2022

Simrad GS25

The Simrad GS25 GPS antenna is the ideal GPS for any navigator that requires extremely accurate and rapid vessel position and speed updates. Unlike other position-only antennas, the GS25 provides magnetic heading for accurate boat direction at any speed and for radar/chart overlay. The GS25 easily connects to any Simrad NS Series multifunction display or any NMEA 2000 network. It is fully waterproof and can be pole or surface mounted on any vessel. Please note this product is not suitable for use with MARPA or autopilot systems, which require a rate compass such as the RC42.

⭐ **www.simrad-yachting.com**

ACRONYMS AT A GLANCE

AIS *(Automatic Identification System)*
ARPA *(Automatic Radar Plotting Aid)*
BRG *(Bearing)*
BUC *(Block Upconverter)*
CHIRP *(Compressed High Intensity Radar Pulse)*
COG *(Course Over Ground)*
COSPAS-SARSAT *(Multinational Search and Rescue System)*
CPA *(Closest Point of Approach)*
DGPS *(Differential Global Positioning System)*
DSC *(Digital Selective Calling)*
DST *(Distance)*
EGNOS *(European Geostationary Navigation Overlay Service)*
EPIRB *(Emergency Position-Indicating Radio Beacon)*
FCC *(Federal Communications Commission)*
GMDSS *(Global Maritime Distress and Safety System)*
GNSS *(Global Navigation Satellite System)*
IEC *(International Electrotechnical Commission)*
IMO *(International Maritime Organization)*
LCD *(Liquid Crystal Display)*
LED *(Light Emitting Diode)*
LEO *(Low Earth Orbit)*
MOB *(Man Over Board)*
MARPA *(Mini Automatic Radar Plotting Aid)*
MEO *(Medium Earth Orbit)*
MEOSAR *(Medium Earth Orbit Search and Rescue System)*
MIMO *(Multiple Input Multiple Output)*
MMSI *(Maritime Mobile Service Identity)*
MFD *(Multifunction Display)*
NM *(Nautical Mile)*
NMEA 2000® *(National Marine Electronics Association Networking Standard)*
PLB *(Personal Locator Beacon)*
PTP *(Point To Point Power Output)*
QZSS *(Quasi-Zenith Satellite System)*
ROFFS *(Roffer's Ocean Fishing Forecasting Service)*
SART *(Search And Rescue Transponder)*
SOTDMA *(Self-Organized Time-Division Multiple Access)*
SOG *(Speed Over Ground)*
SOLAS *(Safety of Life at Sea Convention)*
TCPA *(Time to Closest Point of Approach)*
TDMA *(Time Division Multiple Access)*
UTC *(Coordinated Universal Time)*
VSWR *(Voltage Standing Wave Ratio)*
WAAS *(Wide Area Augmentation System)*

WHOEVER SAID "SILENCE IS GOLDEN"
NEVER HAD A BOAT STEREO

AMPLIFY THE MOMENT WITH THE ALL-NEW
FUSION RA60 MARINE STEREO

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A Garmin Brand

TOP 155
BOATING ELECTRONICS
BEST & BRIGHTEST
2021 - 2022

UNDERWATER LIGHTING

Aqualuma GEN 5 24

The 24 Series is the latest edition to Aqualuma's GEN 5 thru-hull range. Designed with 24 powerful LEDs for large vessels and superyachts, this high-performance light delivers an enormous output, allowing for full color and scene control through the use of a Casambi app available for IOS or Android (blue and white versions also available). The patented, one-piece polymer housing can be serviced from inside the vessel. The GEN 5 range is ideal for any type of hull construction, including aluminum, steel, wood and fiberglass.

⭐ **www.aqualuma.com**

Lumishore TIX1603

Lumishore's EOS (full color change) thru-hull lighting systems are a leader in high-performance full spectrum underwater lighting. The interchangeable TIX1603 has an internal driver and can be serviced from inside the hull without hauling the vessel. It features an ultra-wide 110° beam angle and offers a brightness output of 15,500 verified fixture lumens. Boaters can control their TIX1603 lighting system with the intuitive STV 2204-I display and/or directly from their MFD, using the Lumi-Link Command Center. Features include: preset and customizable colors, cycles, speeds, sweeps, modes, and brightness adjust; sound-to-light integration with onboard sound system; Wi-Fi control via Apple, Android, or any device with web browser; preprogramed synchronized light sequencing (all lights, all colors, all modes); and auto light discovery and set up.

⭐ **www.lumishore.com**

Lumitec SeaBlazeX2

SeaBlazeX2 continues the legacy of the successful Lumitec SeaBlazeX series. Available in dual-color or full-color RGBW spectrum and delivering the same exceptional performance, quality, and value, the SeaBlazeX2 sports 60% greater output. The dual-color SeaBlazeX2 offers an internally synchronized white/blue crossfade mode as well as white or blue color output, while the Spectrum offers a nearly limitless palette of intense, vivid colors complemented with a relaxing color cycle mode. Both versions deliver more than 6,000+ integrating-sphere-measured lumens, easy surface-mount design and require no external drivers to select color or change modes (utilizing Lumitec TTP technology). SeaBlazeX2 has Poco 3 Digital Lighting Control system compatibility for advanced functionality and comes with the Lumitec pedigree of reliability recognized the world over.

⭐ **www.lumiteclighting.com**

OceanLED Explore E7

Explore E7 is the latest addition to OceanLED's Explore range. This compact, easy-to-install product builds on the technology of the highly successful E6 range and offers a unique new optical system. The E7 has a low-profile, Xchangeable Flush Mount body with dual blue/white and RGBW light options. Its angled beam produces a defined blade of light that penetrates the water parallel to the surface, illuminating a more significant area with minimal light loss and maximum penetration. This provides effective underwater XFM lighting for yachts with a varying hull angle that require a flush-mounted light. The E7 is the first underwater light that offers up to a 50° angle using reflectors inside a single 0° XFM housing for sloping hulls on fiberglass vessels.

⭐ **www.oceanled.com**

Shadow-Caster Controller

Control all lighting via your onboard multifunction touchscreen display with our MFD Lighting Control Kit, providing easy control with full ShadowNET lighting control functionality. For use with fishing boats, pontoon boats, sports boats and yachts. Key features include: RGB, RGBW, two color and single color lighting, zone control (for multi-zone applications only), multiple fade mode changes, control color and brightness, four versions of music sync, endless lighting scenes can be configured and recalled, control transition speed, color sequence for multiple fade and strobe modes. Shadow-caster MFD Lighting Control Kit is compatible with most major MFD manufacturers including Garmin, Simrad, Lowrance, B&G, Raymarine and Furuno. Simply plug into your system's network interface and step through the on-screen setup. No additional software to install or complex configuration required.

⭐ **www.shadow-caster.com**

Make sure your electronics are NMEA 2000 Certified

NMEA 2000 is technically a "standard," which is nothing more than a bunch of internal electronic directives and commands that move data back and forth on a boat's electronic network from one device to another. For this to happen seamlessly, the electronics you buy should indicate they are NMEA 2000-Certified. If they are described as NMEA 2000 "compatible" or NMEA 2000 "compliant" or "works with NMEA 2000," that's not good enough. NMEA

Certification is not an advertising pitch—it's a guarantee that the equipment will play nicely and cooperatively on the boat's network.

This is because only those products that have the NMEA 2000-Certified label have been tested and approved for operation on the NMEA 2000 network. This goes for electronic devices as well as the cables and connectors.

To date there are more than 1,100 marine electronics products that carry NMEA 2000 Cer-

tification, and more are being added all the time. You can see a comprehensive list by visiting www.nmea.org and clicking on Standards/NMEA 2000 Certified Products.

If you have any questions about whether the electronics you want to buy will operate on the NMEA 2000 network, talk to your dealer. A comprehensive list of NMEA dealers starts on page 109.

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BOATING ELECTRONICS
BEST & BRIGHTEST
2021 - 2022
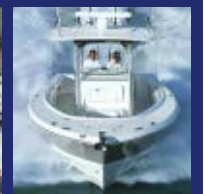
VESSEL MONITORING SYSTEM
Engine/fuel/electrical

Actisense EMU-1

The Actisense EMU-1 is a specialized analogue to NMEA 2000 gateway that converts data from analogue engine and fluid level gauges/senders into NMEA 2000 data. The EMU-1 enables the sharing of engine data by digitizing analogue sensors, enabling NMEA 2000 displays throughout a vessel to monitor and indicate engine parameters. It can monitor vital engine parameters such as temperature, pressure, RPM and fluid levels from one or two engines. The free Actisense Toolkit software has a large gauge library of pre-sets that covers the majority of engine sensors in use today, plus Custom Gauge Manager functionality to handle anything else.

⭐ **www.actisense.com**

Böning AHD 1312GW

The Böning AHD 1312GW is a 12-inch, high-resolution (1280 x 480 pixels) engine display compatible with any electronic marine engine with SAE J1939 or NMEA 2000 protocol. Böning's new generation of displays combines increased performance and functionality in a valuable modern design with increased operational safety and ease of operation on ship bridges. Their luminosity of up to 1000 cd/m2 ensures good readability at all times, even during bright sunlight. Automatic dimming further ensures that the displays operate without glare especially when cruising at night. The AHD 1312GW is suitable for multiple outboard engines (up to six), has a log of past events, and stores the last 24 hours of data for trend analysis.

⭐ **www.boening.com**

FLIR AX8

Gain an entirely new view of your vessel's mechanical system with the FLIR AX8 thermal monitoring camera. Combining thermal and visible cameras in a small, affordable package, the AX8 integrates with Ethernet networks or with Raymarine MFDs and sends audible and visual alerts when the temperature of machine parts rises or falls from preset thresholds. Keep a watchful eye on such critical equipment as engines, exhaust manifolds, and shaft bearings and spot problems before they leave you stranded on the water. And FLIR's exclusive MSX imaging blends visible and thermal images for more detailed imagery that is easier to understand.

⭐ **www.flir.com**

GOST IP67 *(electrical)*

The GOST IP67 Low Voltage Sensor is designed to stand up to the harsh marine environment and is set to trigger an alarm when the voltage drops below 11.6V (on 12V sensor) or 23.2V (on 24V sensor) for more than 2 minutes. This sensor will monitor any 12V or 24V battery bank. A dip switch on the circuit board allows installers to switch the voltage monitored between 12- or 24-volts DC.

GOST MINI Dome PTZ 1080P AHD *(engine)*

The new miniature GOST MINI Dome PTZ 1080P AHD camera is a discreet yet powerful safety solution for monitoring activity aboard, from the engine room to the cockpit. Measuring 4.8 inches in diameter, this camera is tiny compared to most pan-tilt-zoom cameras and is a rugged marinized GOST camera that is tamper-proof and water-resistant for interior or exterior mounting. The camera includes a 2.0-megapixel sensor that provides high-resolution 1080p images. The camera also has a 4x optical zoom lens and is compatible with the GOST WATCH HD-XVR HD for remote viewing, storage, and notifications.

⭐ **www.gostglobal.com**

Maretron MPower CLMD16

Four of the 16 breakers of the 16-channel DC load controller module handle a maximum of 25 amps; 12 breakers handle a maximum of 12 amps (total current capacity of 125 amps). Circuits can be paralleled. The CLMD16 supports two 12-amp H-Bridge reversing polarity circuits that can be used for loads such as engine hatches, boarding ramps, trim tabs, etc. The CLMD16 has eight inputs for hard-wired switches that can be used to switch breaker states, or as inputs for other data such as bilge alarms or hatch positions, etc. There are three inputs capable of monitoring tank levels. Control or reset circuit breakers from the Maretron MBB300C Black Box, the TSM810C Dedicated Touchscreen, Garmin OneHelm or any device running Maretron's award-winning N2KView V3 software (both onboard and remotely).

⭐ **www.maretron.com**

Oceanic Systems Fuel Level Sender

The Oceanic Systems Volumetric Fuel Sender provides a very accurate measurement and output of either the remaining fuel level or fuel volume to the NMEA 2000 network. With no moving parts and suitable for tank depths from 9 inches to 6.5 feet, it senses water contamination in the tank and will warn if any is found to protect the engine from expensive damage. It is accurate to ±2% and to maximize its accuracy it automatically provides a stilling action to dampen any fuel motion in the tank when conditions are rough or when the boat is travelling quickly. It can also be programmed with up to 100 volumetric points offering the most accurate indication of the remaining volume of fuel in the tank.

⭐ **www.osukl.com**

Raymarine YachtSense

Raymarine's YachtSense is an advanced digital control system affording total command and complete awareness of a vessel's electrical systems. The modular nature of the YachtSense system redefines the future of vessel automation for boat builders and technical installers. YachtSense employs a unique, modular architecture that allows boat builders the freedom to design and standardize digital control solutions that are scalable across their entire model range. Each YachtSense system begins with the YachtSense Master Module and Power Supply Module and is completed with a combination of additional multi-channel signal modules. These individual modules interface with specific types of onboard devices and systems, from lighting, pumps, windlasses, swim platforms and entertainment systems to climate control, generators, and other on-vessel mechanical systems.

⭐ **www.raymarine.com**

Xantrex Freedom X

The Xantrex Freedom X Bluetooth Remote Panel is compatible with Freedom X inverters and Freedom XC inverter/chargers and configure via FXC Control app available on Google Play and Apple App Store. The user-friendly app is great for those wanting to learn more and monitor the system status. The Freedom X Bluetooth Remote Panel will display the system status, voltage, current and frequency from input and output sources connected. If there are issues like AC overload on the output side or low battery voltage the user will be notified on the app that there is a fault or error code. The user can use the app to directly email feedback to Xantrex customer service.

⭐ **www.xantrex.com**

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BOATING ELECTRONICS
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VESSEL MONITORING SYSTEM
Multifunction

Böning B:MACS PE

Böning's B:MACS Plotter Edition is suitable for any size vessel with a multifunction display. For many years, alarm, monitoring and control systems have been delivered with their dedicated displays. B:MACS PE was developed especially for connection to the chartplotter to expand the range of applications. The type-approved Böning hardware is used to connect to the vessel's sensors. The new AHD-CPG (Chart Plotter Gateway) interfaces with the MFD (for example the Garmin 8600 series), using modern HTML5 communication, creating a Böning tile in the MFD's menu page. Graphics can be individually created for each vessel, giving the user unlimited possibilities of monitoring and automation.

⭐ **www.boening.com**

Digital Yacht NAVDoctor

Quickly check your NMEA 2000 network for physical and data issues. Check bus voltages, load and frame errors. View PGN data and data sources and produce a printable diagnostics report from this portable, wireless network diagnostics tester. View data on any connected device like iPhone, Android, PC or MAC with no complicated software to install.

⭐ **www.digitalyachtamerica.com**

Garmin OnDeck

Track, monitor and control switches on your boat from anywhere with the Garmin OnDeck system, a fully integrated remote connectivity solution. The OnDeck hub allows you to monitor your boat's battery status, bilge activity, security sensors, GPS location and more. Set up alarm notifications in the ActiveCaptain app to get updates of any changes that may threaten your boat. When you're ready for a day on the water, OnDeck allows you to turn on selected switches remotely. The ActiveCaptain app keeps you connected to your vessel as the GTB 10 hub collects and stores data. The system consists of the GTB 10 OnDeck Hub, door sensor, temperature sensor, shore power sensor and relay switch. A subscription is required.

⭐ **www.garmin.com**

Iris CMAC

Compatible with analogue, IP and HD cameras, Iris CMAC combines all of the main elements of a full-featured security and control system into a stylish enclosure, complete with high-end waterproof connectors and wood-effect end caps. The system features digital video recording, alarm management, network and serial data management, and a removable, shockproof hard-drive caddy. The built-in recorder is fully configurable to maximize storage time, allowing users to adjust resolution, frame rate, motion detection parameters and more. CMAC's HDMI output delivers live, high-definition footage to chartplotters, TVs and dedicated monitors, as well as standard definition devices that are connected via an HDMI to a composite convertor. It can be connected to a boat's Wi-Fi router enabling all on-board cameras to be viewed on smart phones, tablets or computers.

⭐ **www.boat-cameras.com**

Maretron N2KTracker

N2KTracker displays your boat's position and recent track as well as selected vessel operating parameters on your Android or iOS smartphone or tablet. Create, enable/disable a geofence around your boat so that you or others can be alerted if your boat leaves a specified area (enable/disable notifications via e-mail or SMS text message). N2KTracker's dashboard function displays stored data from the cloud such as engine hours for maintenance tracking, fuel levels for cost management, engine parameters to ensure proper operational procedures are being followed, or bilge pump runtime to ensure your boat will remain safely afloat. Ideal for single boat or fleet management. Requires onboard internet connection and Maretron's N2KView and Telemetric Cloud Service subscription.

⭐ **www.maretron.com**

Nautic Alert Insight X3TM

Nautic Alert's Insight X3TM introduces "always connected" reliability through state-of-the-art auto-switching communications, available in satellite/cellular and satellite/Wi-Fi models for use on Iridium's NEXT and Verizon two-way networks. Insight is for those that require the most reliable connectivity and early detection of critical system events with virtually zero false alerts, both when away and onboard via a compact dedicated MFD. Insight's architecture allows simple scalability for monitoring for unexpected water entry and analytics, intrusion, smoke, CO, multi-battery banks, high-precision anchor drag detection, and more. Insight is the elegant solution for those who demand the reliability of an industrial IoT solution complete with high-performance commercial-grade sensors and components.

⭐ **www.nauticalert.com**

Naviop

Navico and Naviop have combined their expertise to develop a state-of-the-art solution for displaying and managing sophisticated yacht systems. Enabling monitoring and control of key equipment, Naviop allows captains, boat owners and manufacturers to develop an easy-to-use, fully customized, touchscreen user interface. Accessible directly from the home screen of any B&G glass bridge display, the system facilitates management of engines, generators, batteries, trim tabs and flaps, lighting, air conditioning, entertainment, security systems, bilge pumps, and other vital onboard services.

⭐ **www.bandg.com**

Oceanic Systems Poseidon 7

Monitor and control any vessel data with the Oceanic Systems Poseidon 7. Designed for 25-60-foot vessels, Poseidon 7 is an integrated monitoring and control system for both sail and power boats. The 7-inch touchscreen display monitors and controls NMEA 2000 data for tank levels, engines, AC and DC power and digital switching, bilge and fire detection systems, and all other vessel systems with ease. Featuring integrated Wi-Fi and remote access capabilities, it allows you to monitor your boat from anywhere. Poseidon 7 can be uniquely configured by the user to create multi-page displays using the simple drag and drop editor. With a library of options for gauges and controls, and the ability to import schematics, images and backgrounds, it provides total flexibility.

⭐ **www.osukl.com**

VESSEL MONITORING SYSTEM

Multifunction

Simrad BoatConnect

Simrad's BoatConnect gives boat owners peace of mind at an excellent value, keeping users informed of their boat's location, battery level, trip history and more, anywhere in the world at any time. Delivering important updates on a boat's status to a compatible smartphone, BoatConnect consists of an easy-to-install hub and an easy-to-use app. Once installed, the solution provides at-a-glance information to enhance the boating experience. Ensuring system reliability, the BoatConnect hub is hardwired to a vessel's battery, and in the event of power loss will continue to provide updates for up to five days on internal backup power.

⭐ **www.simrad-yachting.com**

Siren Marine Siren Fleet

Siren Fleet is a cloud-based fleet management software that allows operators to manage multiple marine assets from one clean, intuitive dashboard. They can monitor precise GPS location, set multiple geofences and receive instant alerts when critical events occur. Detailed event histories give managers the information they need to keep operations running smoothly and efficiently. Siren Fleet provides managers with actionable data through enhanced NMEA 2000 connectivity. On the Siren Fleet dashboard, operators can now monitor each vessel's engine performance and fuel consumption over any number of hours or days. Users can also synchronize alert thresholds between the Siren Marine mobile app and Siren Fleet portal and manage these alert thresholds for a group of boats or an entire fleet.

⭐ **www.sirenmarine.com**

Safety

Böning AHD-GAP F

The AHD-GAP F panel is designed for control of acoustic and optical signals in emergency situations. In addition to manual activation of the horn, common mandatory signals such as Abandon Ship, General Alarm, and Fire Alarm are already hard-coded and can be activated in selectable intervals. The first keystroke activates the preprogrammed signal sequence, while a second keystroke deactivates the previously activated signal sequence. The AHD-GAP F is designed for installation in bridge consoles and other locations. The front panel's surface is coated with a waterproof, UV-resistant and durable plastic film. All controls are illuminated glare-free for a safe operation at night. Brightness of the signal LEDs is automatically adjusted to the ambient light by a built-in photosensor.

⭐ **www.boening.com**

GOST Nav-Tracker IDP

The new GOST Nav-Tracker IDP supports a wide range of greatly enhanced speed, security and location-based machine-to-machine (M2M) services. With 100x higher messaging capability, lower power consumption, 99.99% reliability as mandated by the IMO, global coverage with the exception of the poles and two-way satellite service, the Nav-Tracker IDP offers customers a reliable way to track their vessels from anywhere in the world. In addition, Nav-Tracker incorporates an accelerometer into the antenna, allowing users to set a reporting interval when the boat is moving over a certain speed. This reporting interval begins when the boat is in use, even if the geofence system is disarmed.

⭐ **www.gostglobal.com**

VESSEL MONITORING SYSTEM

Safety

Maretron N2KView V3/Anchoring

N2KView is a comprehensive vessel monitoring and control software that monitors your vessel's systems while underway or remotely from your home or office. Display the information you need including engines, generators, tanks, rudders, navigation instruments, and more. Additional functionality includes alerts, video, switch control, anchoring supervision and fuel management. N2KView software runs on your vessel's computer or on standalone products like the Maretron TSM810C display or the Maretron Black Box (MBB300C) vessel monitoring system. To run N2KView software on your vessel's computer, you will need either a Maretron USB100 or an IPG100 to get sensor information from the NMEA 2000 network to the computer. Download N2KView Mobile for use on your Android or Apple phone.

⭐ **www.maretron.com**

Oceanic Systems Alarm Sounder

Ensure you are kept alert to any monitored condition with the Oceanic Systems Alarm Sounder. It generates an extremely loud 105 dB SPL (sound pressure level) piezoelectric sounder and a ring of red high-brightness LEDs to ensure full awareness of the alarm condition when it sounds, both audibly and visually. Additionally, a blue LED indicates that the unit is powered and communicating to Oceanic's alarm, control and monitoring system, Poseidon. Featuring eight distinct selectable alarm patterns, alerts are distinguishable and the alarm sounder can also be triggered by alarms generated by Poseidon. The unit is well designed to mount either by surface or flush mount and is completely waterproof, meaning the unit can be mounted inside or outside the vessel.

⭐ **www.osukl.com**

ClearCruise Augmented Reality

Raymarine's ClearCruise Augmented Reality is bringing enhanced on-water perception to Raymarine's family of Axiom multifunction displays. Using the new AR200 Augmented Reality Stabilization Module and a CAM210, CAM220IP or FLIR marine camera, ClearCruise AR applies easy-to-understand labels to nearby navigation aids, AIS contacts as well as stored waypoints. At a glance you can see and understand complex navigational situations with instant, heads-up recognition. Day or night, ClearCruise AR technology makes it easy for boaters to see critical navigation aids and confirm their locations. The system supports up to 10 marine thermal cameras for up to 360° coverage, if desired.

⭐ **www.raymarine.com**

Security

Böning B:CONNECT

B:CONNECT is an easy way to monitor, operate and analyze vessel data and live equipment status information onboard your vessel. The B:CONNECT gateway must be installed onboard the vessel, communicating with the existing vessel monitoring system (Böning or third-party) and with the internet (via 4G or the boat's LAN switch). Data is transmitted to B:CONNECT Cloud Service and immediately becomes available for the user to access via PC/laptop browser, cellphone, or tablet. B:CONNECT comes with its HMI (Human-Machine Interface) to visualize real-time data and analyze historical recordings graphically. It is a cost-effective solution with a monthly subscription plan based on recording and transferred data volume.

⭐ **www.boening.com**

GOST Apparition XVR IDP

The GOST Apparition is a high-performance vessel security, monitoring, and crew management system. The Apparition includes a 7-inch touchscreen GOST Apparition interactive display and main control panel and is fully compatible with the full line of GOST wireless security sensors for hatches, doors, and storage lockers as well as wireless relays for siren, light and strobe triggers. The GOST XVR provides real time storage and streaming to owners and crew smart phones remotely for complete situational awareness. Additionally, it comes with the Nav-Tracker IDP antenna for near real-time geostationary satellite communication of all events.

⭐ **www.gostglobal.com**
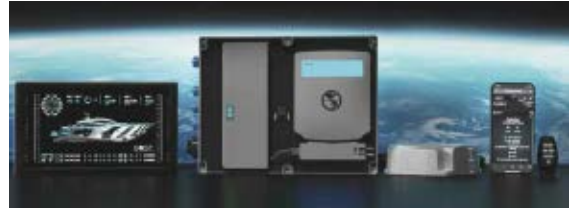
KJM C70

Built for the demanding marine environment and waterproof to IP66 standard, the C70 dome camera is ideal for mid-size to large recreational boats as well as commercial vessels. At night, the C70 uses 48 infrared LEDs to see up to 100 feet away. Manual focus and zoom lens allow the C70's field of view to be adjusted for custom installations. When connected to a compatible MFD, monitor or chartplotter, the C70 on-screen menus can be used to select normal or reverse images. The flexible mounting configuration, 10° to 90° tilt and 360° rotation allow the C70 to be used in most applications on board.

⭐ **www.kjm-holdings.com**

Maretron VDR100

Maretron's VDR100 Vessel Data Recorder provides a complete record of all information produced by electronics connected to the vessel's NMEA 2000 network—ideal for performance analysis, vessel tracking, preventive maintenance, network diagnostics, warranty incident, and accident investigation. Each message is stored using solid-state memory technology with simple data retrieval via a removable 16-GB USB flash drive that will hold weeks or more of data, easily exported with the free N2KExtractor. Using a circular buffer, the oldest data is overwritten only after the entire memory is filled so you won't lose the most recent data. A year or more of data can be stored by purchasing a larger USB flash drive. IEC 60945 certified.

⭐ **www.maretron.com**

Oceanic Systems Poseidon NVR

Monitoring and control systems often need flexible CCTV solutions. The Oceanic Systems Poseidon NVR is a high-reliability server-grade network video recording system that gives you full control of your security and monitoring. Supporting up to 24 cameras and utilizing PoE (Power over Ethernet) technology, each camera can be connected by single cables, simplifying installation and reducing costs. With simple touchscreen gestures on a dedicated CCTV display, you can view cameras live, replay selected recorded footage, zoom, pan and control camera feeds and switch screen modes. It has a 4-TB storage capacity providing 24/7 continuous recording and an overwriting buffer. It is capable of running independently with a dedicated CCTV display, or within Oceanic's alarm, monitoring and control system, Poseidon.

⭐ **www.osukl.com**

VHF

Fixed Mount

B&G V60-B

B&G's V60-B VHF radios are Class B AIS transceivers that not only receive AIS targets but also transmit your position to nearby AIS-equipped vessels. This helps other mariners to spot your boat through any conditions, day or night. AIS information can be viewed on the radio's built-in screen, or overlaid on your chart or radar screen through a compatible chartplotter. The V60-B's removable fist mic can be connected to the front or rear of the radio, and optional extension cables allow the mic and radio to be mounted separately. This offers a simple and cost-effective solution for any mounting location, with no cable clutter.

⭐ **www.bandg.com**

Furuno FM4800

The Furuno FM4800 is a marine VHF radiotelephone with built-in Class D DSC, GPS receiver, AIS receiver, multi-station intercom, and 30-watt loud hailer with listen-back capability. The ultimate marine electronics multi-tool, the FM4800 offers a long list of useful features in a compact and discreet package. The unit can be mounted on its lightweight bracket, either desktop or overhead, or it can be flush mounted. With its built-in GPS receiver, the FM4800 does not require an external GPS source to enable its DSC functionality. The unit can be used as a backup source of GPS positioning for other onboard electronics. Its built-in AIS receiver can be used to overlay AIS targets with networked GPS plotters or MFDs, such as NavNet TZtouch/TZtouch2/TZtouch3, or the GP1871F/GP1971F combo units.

⭐ **www.furunousa.com**

Garmin VHF 215 AIS

Communication and situational awareness are critical on the water. The fixed-mount VHF 215 AIS radio displays AIS data on the chartplotter to enhance communication, situational awareness and collision avoidance. The radio is designed to complement the latest GPSMAP chartplotters and MFDs. Easy to install and use, just plug and play via the NMEA 2000 network to compatible Garmin chartplotters and MFDs. It provides standard Class D Digital Selective Calling functionality (distress calling and direct calling with user-programmed MMSI). With 25-watt transmit power, VHF 215 AIS gives all fishermen, sailors and cruisers confidence at their fingertips in emergency situations and may improve their chances of rapid rescues. It's preprogrammed with US, Canadian and international marine channels plus 10 NOAA weather channels.

⭐ **www.garmin.com**

Icom M510

Icom's new mid-tier Class D DSC fixed-mount VHF marine transceiver, the M510, is a tech-laden powerhouse. At nearly half the depth as the previous M506, the M510 is as intuitive as it is space saving. Command and control using your smartphone via Wi-Fi or create a second hard-wired station using the rear mic port connected to a COMMANDMIC. Features include Wi-Fi calling, color display with day/night modes, optional AIS and hailer. Simple user interface and a choice of control allow boaters to easily communicate while on the water.

⭐ **www.icomamerica.com**

Lowrance Link-9

Delivering complete communication anywhere on the water, the Link-9 fixed-mount VHF radio provides reliable performance and critical safety features including built-in GPS, internal dual-channel AIS receiver with AIS plot functionality, NMEA 2000/0183 connectivity, PA/Hailer/Horn output with listen-back feature, Track Your Buddy technology and a dedicated MOB button. AIS information can be viewed on the Link-9's built-in screen or overlaid on your chart or radar screen through a compatible multifunction display. The Link-9's removable fist mic can be connected to the front or rear of the radio; optional extension cable allows the radio and mic to be mounted separately. This offers a simple and cost-effective solution for any mounting location, with no cable clutter.

⭐ **www.lowrance.com**

Onwa KV-290

The Onwa KV-290 is a fixed-mount VHF/DSC marine transceiver that has an ATIS (Automatic Transmitter Identification System) function, 70 programmable user channels, Favorite Channel and receives the Weather Channel. The dedicated VHF has built-in Class D DSC along with an optional built-in GPS module to display current position data. It meets the IPX7 waterproofing standard (1 meter depth for 30 minutes). If submerged it has a vibration water draining function to move water away from the speaker housing. The transceiver has Dual/Tri-Watch. Dual-watch monitors channel 16 while you are receiving on another channel. Tri-Watch monitors channel 16 and the call channel while receiving on another channel.

⭐ **www.onwamarine.com**

Raymarine Ray73

Raymarine's Ray73 radio is communications central for any boat with built-in VHF, AIS receiver and loudhailer capabilities. Built on a full-sized marine radio chassis, the Ray73 comes with oversized controls and a big screen for easy operation offshore. The Ray73 also supports optional wired or wireless RayMic controllers for true multi-station control and intercom capability. When connected to an optional hailing horn, the Ray73 can generate automatic fog signals and work as a public address announcement system.

⭐ **www.raymarine.com**

Simrad RS100-B

Navigate safely with the Simrad RS100-B VHF marine radio, integrated with a Class-B AIS transceiver and GPS. The RS100-B is a modular VHF system that's expandable and customizable to suit any boat and any on-water communication needs. The standard package includes one wired handset and one external speaker. This setup is expandable up to eight handsets (four wired and four wireless) and four external speakers, ideal for use as an onboard intercom with Simrad HS40 wireless or HS100 wired handsets. All primary functions are accessible from the handset with channel scan and favorites, alphanumeric keypad, clear audio, handset station naming and 60-second audio rewind.

⭐ **www.simrad-yachting.com**

VHF

Fixed Mount

Standard Horizon GX2400

Power, performance, reliability—the Standard Horizon Matrix GX2400 has it all. The 25-watt fixed-mount VHF has a built-in 66-channel WAAS GPS receiver and Class A and Class B AIS receiver, and is NMEA 2000 and NMEA 0183 compatible. Additional features include a 30-watt PA with preprogrammed fog signals. Control all the features of the radio with the wired RAM4 or wireless RAM4X second station microphones. Other notable features include: integrated voices, noise cancelling functions, full DSC capabilities (including position sharing, and group mode), waypoint navigation, E2O (easy to operate menu system), MOB (Man Overboard) function, and selectable day and night mode operation. The GX2400 is backed by Standard Horizon's three-year waterproof warranty.

⭐ **www.standardhorizon.com**

Vesper Marine Cortex V1

Cortex V1 is a revolution in marine VHF radio with touchscreen handsets, integrated AIS transponder and remote vessel monitoring. It will change the VHF experience forever. Upon being alerted by Cortex of a collision risk, boaters can easily initiate calls (DSC) with other vessels by simply tapping the vessel on the touchscreen handset to quickly hail it when every second counts. IPX8 rated and ergonomically designed for one-handed operation with a unique click-wheel, the touchscreen works well with gloves or wet hands and in bright sunlight. Locate a tethered handset wherever power is convenient and add a portable handset for roaming around the boat—all connect wirelessly to the Cortex Hub. Receive alerts such as AnchorWatch on and off the boat via smartphone app.

⭐ **www.vespermarine.com**

Handheld

Icom M94D

Icom's M94D floating handheld highlights an industry first, AIS in a portable VHF radio. Feature rich with built-in Class H DSC, channel 70 is constantly monitored for distress calls, and you can feel safe with its integrated GPS and AIS providing location, bearing and speed. The interface is large, user-friendly and easy to read. A flat sheet keypad provides a positive click-feeling, while slimming the radio's profile. Increased audio output power to 1500 mW pushes any message through in maritime environments. The M94D also has Icom's own Float'n Flash, AquaQuake, Active Noise Cancelling and a MOB feature. The M94D is built for the serious boater.

⭐ **www.icomamerica.com**

Onwa KV-38

The Onwa KV-38 is a floating handheld VHF/DSC marine transceiver that has ATIS (Automatic Transmitter Identification System), 70 programmable user channels, Dual/Tri-Watch and Favorite Channel functions and receives the Weather Channel. The KV-38 also has Active Noise Cancelling, along with built-in GPS, DSC and MOB functions. It meets the IPX7 waterproof standard (submersed to 1 meter depth for 30 minutes), flashes and sounds an alarm when dropped in water. A vibration water draining function removes water from the speaker housing. The KV-38 comes with Li-ion battery, desktop charger, AC adaptor, cigarette lighter cable, and belt and hand strap.

⭐ **www.onwamarine.com**

Standard Horizon HX890

Standard Horizon's HX890 high-end floating DSC VHF/GPS is now available in two color options, black or navy blue. Features include two built-in scrambler systems: a four-code CVS2500A and a 32-code FVP-42 ensure secure communications on the water. Relax with music on the FM radio broadcast bands built into the radio. Other features include: switchable daytime or nighttime mode, waypoint and route navigation, and a group monitor function utilizing DSC group position call. The HX890 has been redesigned with a new ergonomic case and has been rigorously tested to the Military Standard (MIL-STD-810F). The feature-packed HX890 comes packaged with a rechargeable Li-ion battery, alkaline battery tray, 110-volt wall charger, 220-volt adapter, charging cradle, 12-volt charger, PC programming cable and belt clip with lanyard. It has a three-year waterproof warranty.

⭐ **www.standardhorizon.com**

TOP 155
BOATING ELECTRONICS
BEST & BRIGHTEST
2021 - 2022

WIRELESS DEVICE

Actisense W2K-1

The W2K-1 is a compact and low-power NMEA 2000 to Wi-Fi gateway with a built-in data logger. Transfer data using Wi-Fi from an NMEA 2000 backbone to multiple devices (e.g. laptop, tablet and smartphone) running a wide array of popular apps. With built-in conversion of NMEA 2000 messages to NMEA 0183 sentences, a wide variety of vessel data (position, speed, course, wind speed, depth, AIS messages, etc.) can be shared with NMEA 0183-compatible applications. A connected app can also send data back to the backbone, for example to command an autopilot. All NMEA 2000 data received is logged to an internal micro SD card for later download and analysis. W2K-1 is equipped with diagnostic LEDs, internal antenna, plus a rugged IP67 case. Additional diagnostic functionality coming soon.

⭐ **www.actisense.com**

TOP 155
BOATING ELECTRONICS
BEST & BRIGHTEST
2021 - 2022

WIRELESS DEVICE

Aigean LD-7000ac

Five years ago, Aigean Networks introduced the industry's first high-power dual-band Wi-Fi bridge. The LD-7000ac is the most capable addition to the Aigean Wi-Fi line. Boasting six internal high-efficiency antennas in a single package, it equips any size or type of vessel with unparalleled ship-to-shore Wi-Fi capability. The 7-inch, low-profile and weatherproof fiberglass dome is secured to a hard-anodized aluminum base which screws onto a standard 1-inch-14 antenna mount. With six antennas, the LD-7000ac is capable of 3x3 multi-in multi-out and supports 802.11ac for maximum speed. A gigabit power-over-Ethernet connection provides both power to the device and data to your network, making installation a snap. Running the latest AigeanOS, configuration and operation are easier than ever before.

⭐ **www.aigean.com**

Airmar DST810

Airmar's new, breakthrough DST810 Smart Multisensor combines advanced sailing data capabilities with a simple, reliable way to calibrate accurate speed via Bluetooth-enabled smart devices. In addition to delivering water depth, temperature and an upgraded 5-Hz (5X per second) speed through water output, the new DST810 features an integrated attitude sensor for heel and trim data. That data, together with Airmar's simple calibration tool, the CAST app, makes heel-compensated speed calibration fast, intuitive, and independent of onboard instruments. CAST connects directly to DST810 via Bluetooth, making configuration simple with intuitive menus and guided calibration. Those data configurations and calibrations are then stored in the DST810, delivered to the NMEA 2000 network, and can be accessed wirelessly as well.

⭐ **www.airmar.com**

B&G H50

Combining impressive range with inductive charging for flexible communications at and away from the chart table, the compact B&G H50 wireless VHF handset features a powerful speaker, integral AIS vessel display, ergonomic rubber over molding and six keys, including a dedicated channel 16 and MOB button for reliable contact wherever you are onboard. The H50 can also function as an intercom at a range of 200 meters from handset to handset and is waterproof to the IPX-7 standard. The H50 battery will normally last eight hours.

⭐ **www.bandg.com**

Dockmate

The new Dockmate remote control system wireless receiver includes a modernized look and rugged design that is fully compatible with all electronic engine and thruster controls. The receiver is made of aluminum, waterproof to IP67 rating and measures 9 x 8 x by 3 inches. Each receiver integrates the proprietary communications protocol DockLink, a superior, state-of-the-art two-way FHSS (Frequency Hopping Spread Spectrum) communication with handshake and GFSK (FM) modulation on the 433-MHz frequency band in North America. FHSS means that every Dockmate uses a unique set of six channels in the entire band of 72 channels, and changes from one frequency to another 6x per second. The Dockmate signal reaches up to 165 feet, which the company says is the longest range in the industry.

⭐ **www.dockmate.us**

Furuno TZ First Mate

NavNet TZtouch3 is compatible with the Android Controller app, Android/Apple iOS Viewer apps, Android/Apple iOS remote app, TZ (TimeZero) iBoat, and the innovative First Mate app. The Furuno TZ First Mate mobile app allows you to quickly log your catches and locations with photos using the smartphone you already have in your pocket. Entries are automatically synchronized with the MFD when your smartphone or tablet is connected to the MFD's wireless hotspot. The TZ First Mate app will synchronize and backup your content, such as waypoints, marks, routes, and boundaries. You can also retrieve the MFD's system ID, software versions, and report issues via a report log. For more information on the First Mate app, visit the TZtouch3 product pages on the Furuno USA website.

⭐ **www.furunousa.com**

Fusion ARX 70

Whether you are on the boat or in the water, the ARX 70 wireless remote gives you the freedom to control your audio from wherever you choose. Featuring a compact, low-profile design and fitted with high-bonding tape, the ARX 70 is quick and easy to mount in almost any location onboard for the most discreet and convenient placement. The ARX 70 can be paired with a variety of Fusion's ANT-enabled products, including the award-winning Apollo series stereos, and is available in black and white models to suit a variety of unique boat styles.

⭐ **www.fusionentertainment.com**

Garmin ActiveCaptain

The free all-in-one ActiveCaptain app provides a powerful connection to your Garmin chartplotter, charts, maps and the community for the ultimate connected experience. Wherever you are, you'll have unlimited access to your cartography, the ability to purchase new maps and charts and access to the Garmin Quick-draw Contours Community. Connect to the ActiveCaptain community for up-to-date feedback on marinas and other points of interest. Smart notifications on your chartplotter screen keep you connected with everyone else. Users can also plan a trip or pre-fish a lake, and ActiveCaptain will automatically sync with your chartplotter. Even view and control your chartplotter from your smartphone or tablet while you're on the water. Pair the ActiveCaptain app with the Garmin OnDeck system for remote tracking, monitoring and controlling of boat data.

⭐ **www.garmin.com**

GOSTSpecter.com

Specter allows boat owners complete control of a GOST Nav-Tracker IDP device. Once users log in, Specter displays a global map with icons showing locations of all vessels in the user's fleet. When a vessel is selected, the date and time of the last report received is displayed, which can be adjusted to the user's preference. It also shows the most recent latitude and longitude, boat speed, heading, status of whether security system is armed or disarmed, nearby points-of-interest, as well as antenna input voltage and signal strength. From this screen the vessel can be polled for its current location and the geofence or full system can be remotely armed/disarmed, depending on which version of the IDP GOST system is installed.

⭐ **www.gostspecter.com**

WIRELESS DEVICE

Kvaser Air Bridge Light HS M12

In situations where CAN cabling is difficult to implement and involves too much maintenance, the Kvaser Air Bridge Light HS M12 provides a high-performance wireless CAN bridge to connect CAN networks. Comprising a preconfigured pair of plug-and-play units, with integrated antennas and rugged housings, Kvaser's Air Bridge Light HS M12 enables wireless bidirectional exchange of all CAN data between two separate networks. Employing a proprietary 2.4 G radio and frequency-hopping mechanism, the Kvaser Air Bridge Light HS controls the data rate, radio packet format, output power and pairing method to achieve predictable latencies, without sacrificing stability or range. Transmission range is as much as 70 meters, with a maximum data rate of 1200 messages per second and a packet latency of 4.8 ms.

⭐ **www.kvaser.com**

Maretron IPG100

The Maretron IPG100 gateway lets you connect PCs, Macs, tablets, or smartphones to an NMEA 2000 network so you can monitor and control your vessel onboard or remotely using Maretron's N2KView V3 software or the N2KView Mobile App. The IPG100 includes an NMEA 2000 and an Ethernet data port for exchanging information between the onboard NMEA 2000 network and Internet Protocol (IP)-enabled devices using conventional technology such as routers, switches, and wireless modems. Once enabled, the IPG100 will automatically connect to Maretron's Real Time Cloud Service, which allows you to remotely connect to your vessel via the internet. This allows you to keep an eye on your vessel from anywhere in the world.

⭐ **www.maretron.com**

Scanstrut ROKK Nest

Safely houses and wirelessly charges your phone at the same time. Keep your phone in a safe place onboard, tucked away, charged and ready to go. The most convenient way to store and wirelessly charge your phone onboard indoors or out. Ideal for integration into consoles, seating and cabinetry. Slide your phone into the pocket and start charging wirelessly. The grippy mat stops your phone from sliding around inside. The front lip with an easy access thumb bevel acts as a safety barrier, making sure your phone stays in the Nest. One cut into your chosen mounting location, four screws supplied and a front fascia to leave the finished result clean and uncluttered.

⭐ **www.rokkstore.com**

Shakespeare Stream

Designed for boats of all sizes, the Shakespeare Stream uses Shakespeare's state-of-the-art marine cellular booster technology to amplify weak cell signals along inshore, coastal and popular cruising routes, enabling boaters to use data on their cellular devices more reliably. Take advantage of your existing cellular devices and unlimited plans to bring the internet onto your boat. The Shakespeare Stream is compatible with most cellular devices and major cellular service providers in the US and Canada. Place the cellular-enabled tablet, phone or mobile hotspot that needs to be boosted within 1-2 inches of the black helm antenna and watch your data speed and reliability go up. Have more devices onboard? Share the internet to other devices by enabling a hotspot on your boosted device.

⭐ **www.shakespeare-ce.com**

Simrad WR10

Designed to fit in the palm of the hand, the Simrad WR10 Wireless Pilot Controller remote provides complete boat control, no matter where boaters are on the vessel. The WR10 is compatible with the full Simrad autopilot line and consists of a small, lightweight waterproof Bluetooth base with micro-C connections and pairings for up to four remotes. Offering a 98-foot range, the remote has clearly marked keys and an LED status light for fast and accurate autopilot access. A mode button allows boaters to toggle through pilot modes. Two dodge keys are used to program turns in 1° or 10° increments. There is also a Pilot Standby button and a large Auto key.

★ **www.simrad-yachting.com**

Standard Horizon RAM4X

Wirelessly control all radio functions of Standard Horizon's GX2400 fixed-mount VHF with the interface of the RAM4X wireless remote access microphone. Using the SCU-30 wireless access point plugged into the back of the radio, you have the capability of syncing up to four RAM4X units. With an operating range of up to 65 feet, the RAM4X allows you to control functions including DSC Calling, Position Polling, Group Calling and more, or use the RAM4X to intercom between the main station and other wireless RAM4X units.

★ **www.standardhorizon.com**

Wave WiFi MNC-1250

The MNC-1250 is a dual-band 2.4/5-GHz wireless network controller with a built-in SIM slot to access cellular data sources. It features gigabyte ports, multi-source failover functionality, dual internal access points, and a host of other robust features for a vessel's networking needs. Today's boaters want faster internet so many marinas and hot spots now offer the 5-GHz band. Wave WiFi has a variety of dual-band Wi-Fi transceivers that can bring 5 GHz or other internet options that are available aboard without limitations. Once the boat is connected to shoreside Wi-Fi, the MNC1250 allows faster signals to be broadcast on board. It uses Wave WiFi's proprietary GUI (Graphic User Interface), which makes it easy to access and control a host of networking functions.

★ **www.wavewifi.com**

NMEA OneNet—a giant leap ahead *(Continued from page 10)*

mechanism for distributing an encryption key to devices on the network.

How do you see OneNet growing in the future?

I've already mentioned the absence of a detailed specification for network infrastructure components. That will be needed to support the radar messages already being worked on.

As more manufacturers get involved I expect there to be a lot of new ideas brought to the committee, but I'll touch on two other ways that I anticipate OneNet growing in the near future. First, I think there will be a demand to better support products connected over WiFi.

The second is a solution to a problem we run into often with NMEA 2000, where a display from one manufacturer cannot configure the sensor from another. OneNet already requires all products to run an HTTP server, so the idea is to

build on this by requiring sensors to offer a web page that can be shown on any display and used to securely configure that sensor.

Nate Karstens is a Technical Lead Software Engineer at Garmin International, Inc. who has 13 years of experience in the marine electronics industry. He says he loves writing software and has contributed in many areas, but his passion is embedded systems networking and cybersecurity.

NIGHT VISION

ComNav HV 250XL

ComNav's HV 250XL with 800 x 600 resolution and a spectral range of 8µm-14µm make it ideal for surveillance purposes for law enforcement, patrol and reconnaissance. With an over 3-kilometer detection range and 16-GB memory it is tailor-made for search & rescue. The viewfinder's OLED 1280 x 1024 visual clarity provides an identification range of more than 1 kilometer. Its light weight (less than 1.5 kg including battery) makes it easy to carry. More than fours hours of operation.

⭐ **www.comnav.com**

Raymarine ClearCruise/FLIR M232

The combination of the FLIR M232 thermal camera and Raymarine Axiom series MFDs make for a powerful night-time navigation system that is sized and priced for any boat. When integrated together the pair's ClearCruise intelligent thermal analytics technology offers boaters an entirely new level of awareness and safety. Like an extra set of eyes, the M232 will automatically scan for objects in the water and Axiom will notify you about them with both visible and audible alerts. When combined with the AR200 Augmented Reality sensor, the M232 can also display live data overlays identifying navigation aids, AIS contacts and navigation points. The AR overlay is stabilized and synchronized with the M232's pan, tilt and zoom capabilities too.

⭐ **www.raymarine.com**

2021-2022
BUYERS' GUIDE

THE MARINE ELECTRONICS SOURCE

ANNUAL BOATERS' ISSUE

The Buyers' Guide is aimed at helping you find the right products and expert help to get top performance from the electronics aboard your boat. It is a one-of-a-kind directory of electronics, manufacturers, dealers, distributors, product categories and more.

BUYERS' GUIDE

Product Categories	**73**
Boat Builders	**81**
Manufacturers, Service Providers & Training Schools	**82**
Dealers	**109**
Trade Members	**116**

On the following pages, you'll find information about companies that make, sell, install and service marine electronics. You can count on any of them to provide the electronics and service you need.

Leading off is an alphabetical list of Products—from AC Monitoring to Wi-Fi—and the companies that produce the equipment. NMEA Boat Builder members are next followed by a comprehensive directory of Manufacturers, Service Providers & Training Schools. We've included website addresses to help you conduct your own research into products and services. Manufacturers that are NMEA members have their names marked in blue and are identified with the NMEA logo.

Marine electronics Dealers are next in line. It's their job to recommend the right equipment for your needs and make sure it's installed and working properly. Dealerships that have earned the Master Dealer designation are noted in purple type and marked with a star.

Listed last are Trade Members. Among these companies are the distributors, manufacturer representatives, publications and others that serve the marine electronics industry.

Innovation by Maretron - Muscle by Gemeco

At Gemeco we put all of our strength behind the brands we sell. If you're looking to select, program and commission a state-of-the-art Maretron vessel monitoring and control system, you've come to the right place. Our team of fully certified NMEA 2000® technicians can help you design exactly the right onboard network. Give us a call.

The evolution of the intelligent boat is here! MPower Digital Switching from Maretron, a Carling Technologies Brand.
www.Gemeco.com/MPower

M⚡Power®
Digital Switching Platform

| 12-Channel DC Load Controller Module | 16-Channel DC Load Controller Module | VMM6 Contura® Digital Switch Module | CKM12 Customizable Keypad | 12-Channel Optional Bypass Module |

GEMECO
MARINE ELECTRONICS
SPECIALISTS

Maretron®
Vessel Monitoring & Control

www.gemeco.com

800-543-6326

PRODUCTS

Use this product guide by finding the **product(s)** you need, and then referring to the listing of manufacturers for detailed information.

AC Monitoring
ACCUWATT Technologies
Blue Sea Systems
Boening Automationstechnologie
DEIF
E-T-A Circuit Breakers
Faria Beede Instruments
Maretron
Mastervolt
Newmar
Paneltronics
Quality Marine Electronics
VETUS MAXWELL

AIS Systems
Alltek Marine Electronics
Comar Systems
ComNav Marine
Digital Yacht America
em-trak Marine Electronics
exactEarth
Furuno USA
Garmin
GEM Elettronica
Hensoldt UK
Icom America
Jotron USA
JRC Americas/Alphatron Marine USA
Koden Electronics
Kongsberg Maritime
Lowrance - Navico Americas
L3 Maritime Systems
McMurdo
Ocean Signal
Onwa Marine Electronics
Prescom
Raymarine
Saab TransponderTech
SAILOR
Samyung ENC
San Jose Technology
Seapilot
SevenStar Electronics
Shine Micro
Simrad Yachting - Navico Americas
SI-TEX Marine Electronics
SRT Marine Technology
Standard Horizon
Transas
True Heading
Vesper Marine
Wartsila SAM Electronics
Watcheye Navigation
Weatherdock

Alarms
Aqualarm

AVENTICS
Axtech
Boatrax
Boening Automationstechnologie
CruzPro
E-T-A Circuit Breakers
EyeOnBoard
Flight Systems
Free Technics
GOST
JBOX
Kobelt Manufacturing
Kongsberg Maritime
KUS USA
Lumastrobe Warning Lights
Maretron
Marine Guardian, The
MTI Industries
Nautic Alert
Praxis Automation Technology
Radamec Control Systems
San Giorgio S.E.I.N.
Siren Marine
Smart Switch Technologies
Sure Action
Wartsila SAM Electronics
Yachtcontrol
Yacht Sentinel

Alarms, Fume/Fire
Aqualarm
Axtech
CruzPro
EyeOnBoard
Fireboy - Xintex
GOST
Kongsberg Maritime
Maretron
MTI Industries
Nautic Alert
Praxis Automation Technology
San Giorgio S.E.I.N.
Sea-Fire Marine
Sure Action

Alarms, Security
Across Ocean Systems
Aqualarm
Atlastrax USA Communication
Axtech
Boatrax
Boening Automationstechnologie
CruzPro
EyeOnBoard
GOST
Maretron
Marine Guardian, The

Finding Brands

If you are looking for: See the company:

If you are looking for:	See the company:
Airpax	Sensata Technologies
Alert 2	Emerald Marine Products
Beede Instruments	Faria Beede Instruments
BlueTraker	EMA
BlueView Technologies	Teledyne BlueView
Boatracs/Orolia	Orolia USA
Coastal Explorer	Rose Point Navigation Systems
Egersund Marine Electronics	ioStudioTech
EMC	Global Eagle Entertainment
EmpirBus	Garmin Sweden Technologies AB
Evinrude	BRP US
FW Murphy	Enovation Controls
Genesis	C-MAP
Infinity by Harman	Prospec Electronics
Japan Radio Co. (JRC)	JRC Americas/Alphatron Marine USA
KEP Marine	Aydin Displays
LTW Technology	Amphenol LTW Technology
MarineGuard Network	Sure Action
MTN Satellite Communications	Global Eagle Entertainment
Offshore Systems (UK)	Oceanic Systems (UK)
Onan	Cummins Onan Marine
POWERLINE	HD Power Solutions
Rolls Battery	Surrette Battery
SeaStar Solutions	Dometic Marine
Sea Tel	Cobham SATCOM
Tank Tender	Hart Systems
Teleflex Marine	SeaStar Solutions
Thomas G. Faria	Faria Beede Instruments
TIMEZERO	MaxSea
Trigentic	Garmin Sweden Technologies AB
Xintex	Fireboy - Xintex
Wema Systems	Frigus - Wema
Wema USA, Inc.	KUS USA, Inc.
Yaesu	Standard Horizon

IMPORTANT: For manufacturers and boating consumers

The *MEJ* Buyers' Guide is distributed internationally in print and digital form, and through the website, www.nmeaboater.com. Manufacturers that submit products for listing in the Buyers' Guide are responsible for making sure that all approvals from governmental authorities have been obtained for a specific product, insuring that a product may be legally manufactured and sold in an area in which it is intended to be used. *MEJ* encourages boating consumers to double check that any given product is properly licensed and approved to be purchased and used within the area of their boating activity.

Nautic Alert
Palladium Technologies
Siren Marine
SPOT
Sure Action
Yacht Sentinel

Alternators
Balmar
HD Power Solutions
Mastervolt
Prestolite Electric
Wartsila SAM Electronics

Ammeters
(see AC Monitoring)

Antenna Hardware
AC Antennas
AEP Sales
AirWave Marine
Attwood
Commander Technologies
Comrod
Digital Antenna
D. Lilly & Co.
Edson
Glomex
GME
KJM
Lars Thrane
Lee's Tackle
Metz Communication
Morad Antenna
Pacific Aerials
PDQ Connect
Plastimo
Rupp Marine
Sea-Dog Line
Seaview
Shakespeare
Wartsila SAM Electronics
Whitecap

Antennas, Cellular
AC Antennas
AEP Sales
AirWave Marine
Boening
   Automationstechnologie
Commander Technologies
Comrod
Digital Antenna
Glomex
GME
Morad Antenna
Pacific Aerials
PDQ Connect
Shakespeare
weBoost (Wilson
   Electronics)
Wave WiFi

Antennas, HF/SSB
AC Antennas
AEP Sales
Commander Technologies
Comrod
Digital Antenna
Gam Electronics

Glomex
KISS-SSB
MFJ Enterprises
Morad Antenna
Pacific Aerials
Shakespeare

Antennas, Marine Stabilized
(see Satellite TV)

Antennas, Satellite Radio
AirWave Marine
ASA Electronics/Jensen
   Marine
Digital Antenna
Garmin
Shakespeare
TERK by Audiovox

Antennas, TV Broadcast
(non-stabilized)
AC Antennas
ASA Electronics/Jensen
   Marine
Digital Yacht America
Glomex
GME
KNS
Majestic Global USA
Naval Electronics
Pacific Aerials
PDQ Connect
Shakespeare
Winegard

Antennas, VHF
AC Antennas
AEP Sales
AirWave Marine
Comar Systems
Commander Technologies
Comrod
Digital Antenna
Gam Electronics
Glomex
GME
KJM
Majestic Global USA
Metz Communication
MFJ Enterprises
Morad Antenna
Pacific Aerials
San Jose Technology
Shakespeare
Wartsila SAM Electronics

Autopilots
Accu-Steer
B&G - Navico Americas
Benmar Marine
ComNav Marine
Coursemaster Autopilots
Elproma
Furuno USA
Garmin
GEM Elettronica
Hensoldt UK
Kongsberg Maritime

Lewmar
NKE Electronics
Northrop Grumman Sperry
   Marine
Octopus Autopilot Drive
   Systems
Onwa Marine Electronics
PYI
Raymarine
Samyung ENC
Seastel Marine System
Simrad Yachting - Navico
   Americas
SI-TEX Marine Electronics
YDK Technologies

Barometers
(see Clocks, Barometers,
and Chronometers)

Batteries, Marine
ACCUWATT
East Penn Manufacturing
Exide
Firefly Energy
Interstate Batteries
Lifeline Batteries
Lithium Pros
Mastervolt
NorthStar Battery
Odyssey Battery
OPTIMA Batteries
Super B Lithium Power
Surrette Battery
Trojan Battery/C&D
   Technologies
VETUS MAXWELL
Victron Energy
Xantrex

Battery Chargers
AEP Sales
Analytic Systems
Astron
BEP
Blue Sea Systems
DEIF
Dometic Marine
East Penn Manufacturing
Guest - Marinco
KJM
La Marche Mfg.
Lewco Electric
Lithium Pros
Mastervolt
Minn Kota
Newmar
OPTIMA Batteries
Powermania
Progressive Dynamics
ProMariner
PulseTech Products
Quality Marine Electronics
Quick USA
Save A Battery
Super B Lithium Power
Victron Energy
Xantrex

Battery Monitors
ACCUWATT Technologies

Across Ocean Systems
Autonnic Research
Balmar
Blue Sea Systems
Bocatech Switches
Boening
   Automationstechnologie
CruzPro
E-Plex
E-T-A Circuit Breakers
Faria Beede Instruments
Free Technics
La Marche Mfg.
Littelfuse
Magnum Energy
Maretron
Mastervolt
Minn Kota
Moeller Marine Products
Nautic Alert
NAVYLEC
Newmar
Oceanic Systems (UK)
ProMariner
PulseTech Products
Quality Marine Electronics
Save A Battery
SeaSense
Siren Marine
Suzuki Motor of America
Tohatsu
VDO Marine
Veethree Electronics &
   Marine
Veratron
Victron Energy
Xantrex

Cables and Wire
ACTISENSE (Active Research
   Limited)
Alltek Marine Electronics
Amphenol LTW Technology
ANCOR
Belden
Boening
   Automationstechnologie
Champlain Cable
Chogori Technology
Cobra Wire & Cable
Davis-Orion Marine
Digital Antenna
East Penn Manufacturing
Finecables Enterprise
FTZ Industries
Hubbell
IEWC
Kalas Manufacturing
Maretron
Mar-Lan Industries
Metal & Cable
Molex
Oceanic Systems (UK)
Ocean Systems
Outdoor Solutions
   Electronics
Pacific Aerials
Phoenix Contact
Shakespeare
Singatron Technology

TE Connectivity
Times Microwave Systems
Tripp Lite
TURCK
Whitney Blake

Cable Ties
ANCOR
East Penn Manufacturing
Handi-Man Marine
IEWC
Molex
Sea-Dog Line
TE Connectivity

Cameras/Marine
Aqualights
Axis Communications
Aydin Displays
Boening
   Automationstechnologie
ComNav Marine
Current Scientific
ELBEX
EMX
FLIR Systems
Fujinon
Garmin
GOST
Iris Innovations
JVC U.S.A.
KJM
Kongsberg Maritime
Lumishore
Northrop Grumman Sperry
   Marine
NVTS
OceanLED USA
Ocean Systems
Omnisense Systems USA
Palladium Technologies
Panasonic
Raymarine
Rugged Marine
SeaView Underwater
   Technologies
SiOnyx
Sonavision
Speco Technologies
VideoRay

Cellular Amplifiers
Digital Antenna
PDQ Connect
Shakespeare
weBoost (Wilson Electronics)
Wave WiFi

Chart Plotters
B&G - Navico Americas
Furuno USA
Garmin
GEM Elettronica
HONDEX
Humminbird
JRC Americas/Alphatron
   Marine USA
Lowrance - Navico Americas
Onwa Marine Electronics
Raymarine

Simrad Yachting - Navico Americas
SI-TEX Marine Electronics
Taiyo Musen

Circuit Breakers
ACCUWATT Technologies
ANCOR
Attwood
BEP
Blue Sea Systems
Bocatech Switches
Boening Automationstechnologie
Carling Technologies
CZone
Egis Mobile Electric
E-T-A Circuit Breakers
Heinemann Electric Canada
Littelfuse
Newmar
Paneltronics
Sea-Dog Line
Sensata Technologies
Yacht Devices

Clocks, Barometers, and Chronometers
Davis Instruments
Faria Beede Instruments
Howard Miller
Imtra
JDC Electronic
LCJ Capteurs
Maretron
MFJ Enterprises
Observator Instruments
PROS by Ditel
Suunto
Swift Optical Instruments
VDO Marine
Veratron
Weems & Plath
Yacht Devices

Compasses, Fluxgate/Rate
Airmar Technology
Autonnic Research
B&G - Navico Americas
ComNav Marine
Elproma
Furuno USA
ioStudioTech
KVH Industries
Lars Thrane
Lowrance - Navico Americas
Maretron
Nexus - Garmin
NKE Electronics
Raymarine
SeaCross Marine
Simrad Yachting - Navico Americas
SI-TEX Marine Electronics
VDO Marine
Veratron

Compasses, GPS
Airmar Technology

Axtech
ComNav Marine
Elproma
Furuno USA
Garmin
GEM Elettronica
Hemisphere GNSS
JRC Americas/Alphatron Marine USA
Lowrance - Navico Americas
NovAtel
SeaCross Marine
Simrad Yachting - Navico Americas
SI-TEX Marine Electronics
Taiyo Musen
True Heading
VDO Marine
Veratron
Wartsila SAM Electronics

Compasses, Gyro
Autonnic Research
Elproma
GEM Elettronica
Incomar Sensors
iXBlue
KVH Industries
Northrop Grumman Sperry Marine
Raytheon Anschuetz USA
Simrad Yachting - Navico Americas
Teledyne TSS
Wartsila SAM Electronics
YDK Technologies

Compasses, Magnetic
Davis Instruments
Elproma
GEM Elettronica
Lalizas
Northrop Grumman Sperry Marine
Plastimo
Ritchie Navigation
Suunto
Weems & Plath

Computers, Marine
Aigean Networks
Alltek Marine Electronics
Argonaut Technology
Aydin Displays
Big Bay Technologies
Boening Automationstechnologie
Comark
ComNav Marine
Digital Yacht America
Divelbiss
Hatteland Technology
Kongsberg Maritime
Maretron
Marine PC
Moxa
Nauticomp
Octopus-10/EMA
Radamec Control Systems
Russell Technologies

San Giorgio S.E.I.N.
Seatronx
VarTech Systems
Winmate USA
Yachtcontrol

Connectors
ACTISENSE *(Active Research Limited)*
ANCOR
Blue Sea Systems
Bocatech Switches
Chogori Technology
DEUTSCH
Digital Antenna
Finecables Enterprise
Fischer Connectors
Furrion
Maretron
Marine Lightning Protection
Molex
Oceanic Systems (UK)
Outdoor Solutions Electronics
Pacific Aerials
Phoenix Contact
Richardson Electronics
San Jose Technology
Sea-Dog Line
Shakespeare
Singatron Technology
TE Connectivity
Tripp Lite
TURCK

Control Systems, Engine
7Star
ASTEL MARINE
AVENTICS
Boening Automationstechnologie
BRP US
Carling Technologies
Common Ground
DEIF
Divelbiss
Dometic Marine
Enovation Controls
Flight Systems
Free Technics
Gill Instruments
Glendinning Marine Products
HamiltonJet
Interactive Technologies
Jastram Engineering
Kobelt Manufacturing
Livorsi Marine
MBW Technologies
Mercury Marine
Naocontrol
Pulse Electronics
Radamec Control Systems
Smart Switch Technologies
Sturdy
Tohatsu
Trombetta
Twin Disc
UFLEX USA

VETUS MAXWELL
Volvo Penta
Wartsila SAM Electronics
Yacht Energy US
Yamaha Motor
Yanmar Marine
ZF Marine Propulsion Systems Miramar

Converters, Power
ADFweb.com
Analytic Systems
Astron
Atlas Marine Systems
Chetco Digital Instruments
Elproma
La Marche Mfg.
Mastervolt
Newmar
Oceanic Systems (UK)
O. Overland
ProMariner
PROS by Ditel
Red Lion Controls
San Giorgio S.E.I.N.
Victron Energy
Wartsila SAM Electronics
Xantrex
Zefatek
Zinnos

Depthsounders, Digital/LCD
B&G - Navico Americas
CruzPro
DMI Marine
EchoPilot
Faria Beede Instruments
Furuno USA
Garmin
GEM Elettronica
Hawkeye Electronics
HONDEX
Humminbird
JRC Americas/Alphatron Marine USA
Knudsen Engineering
Lowrance - Navico Americas
Maretron
Marport Americas
Raymarine
Ross Labs
SIGNETMARINE
Simrad Yachting - Navico Americas
SI-TEX Marine Electronics
SKIPPER Electronics AS
VDO Marine
Veratron

Depthsounders, Fishfinder
Furuno USA
Garmin
Hawkeye Electronics
HONDEX
Humminbird
iXBlue
JRC Americas/Alphatron Marine USA

Koden Electronics
Lowrance - Navico Americas
Onwa Marine Electronics
Raymarine
Samyung ENC
Simrad Fisheries
Simrad Yachting - Navico Americas
SI-TEX Marine Electronics
SKIPPER Electronics AS
Suzuki Fish Finder
Vexilar

Depthsounders, Flashing
HONDEX
Humminbird
Lowrance - Navico Americas
Vexilar

Depthsounders, Handheld
Fish Hawk Electronics
Hawkeye Electronics
Humminbird

Depthsounders, Testing
Airmar Technology
EDI/BBG
Knudsen Engineering

DGPS/WAAS Receivers
ComNav Marine
Furuno USA
Garmin
Hemisphere GNSS
JRC Americas/Alphatron Marine USA
Kongsberg Maritime
Lars Thrane
NovAtel
Oceaneering International
SAILOR
SeaCross Marine
Simrad Yachting - Navico Americas
SI-TEX Marine Electronics
Wi-Tronix

Diagnostic Tools
Across Ocean Systems
ACTISENSE *(Active Research Limited)*
Airmar Technology
CDI Electronics
Cojali
Digital Yacht America
EDI/BBG
FLIR Systems
Fluke
GME
ioStudioTech
Kvaser
Maretron
Marine Electrical Products
Newmar
Shine Micro
ShipModul
Vector North America

Warwick Control
   Technologies
Zefatek

Digital Switching
Maretron
Q Experience

Displays
(see Monitors, Marine/
Multifunction Displays)

Doppler Speed Indicators
Furuno USA
JRC/Alphatron Marine USA
Northrop Grumman Sperry
   Marine
SKIPPER Electronics AS

Dynamic Positioning Systems
Beier Integrated Systems
Kongsberg Maritime
Northrop Grumman Sperry
   Marine

Electrical Connectors, AC
Blue Sea Systems
Centerpin Technology
Conxall
DEUTSCH
FTZ Industries
Furrion
Hubbell
LPA Connection Systems
Maretron
Marinco
Mar-Lan Industries
SmartPlug Systems
TE Connectivity

Electronic Chart Software
Acclaimed Software
C-MAP
Electronic Charts
Explorer
Free Technics
Garmin
Global Navigation Software
Humminbird/LakeMaster
iNavX
ioStudioTech
Maptech
MaxSea/TIMEZERO
Nautibus Electronic
Navionics
NavSim Technology
Nobeltec
OSI Maritime Systems
Prescom
Raymarine
Rose Point Navigation
   Systems
SailRacer
San Giorgio S.E.I.N.
Simrad Yachting - Navico
   Americas

Transas

E-Mail/HF Modems
Farallon Electronics *(USA
   distributor for PACTOR)*
HAL Communications

E-Mail/Satellite
(see Satellite
Communications)

Engine Monitoring
Across Ocean Systems
ACTIA-US
ACTISENSE *(Active Research
   Limited)*
Aetna Engineering
Boatrax
Boening
   Automationstechnologie
Canadian Automotive
   Instruments
Chetco Digital Instruments
CruzPro
DEIF
Divelbiss
Dometic Marine
Electronic Applications
Enovation Controls
Faria Beede Instruments
Flight Systems
Free Technics
Furuno USA
Garmin
Gill Instruments
Honda
Kobelt Manufacturing
KUS USA
Livorsi Marine
Lowrance - Navico Americas
Maretron
Medallion Instrumentation
   Systems
Mercury Marine
Naocontrol
NoLand Engineering
Raymarine
San Giorgio S.E.I.N.
Suzuki Motor of America
Synerject
Tohatsu
VDO Marine
Veethree Electronics &
   Marine
Veratron
VETUS MAXWELL
Westberg Manufacturing
Yamaha Motor

EPIRBS
ACR Electronics
GME
Jotron USA
JRC Americas/Alphatron
   Marine USA
McMurdo
Ocean Signal
SAILOR
Simrad Yachting - Navico
   Americas

Taiyo Musen
Wartsila SAM Electronics

Filters, Noise
Newmar
Tripp Lite

Fuel Monitoring Systems
Across Ocean Systems
Boatrax
Bocatech Switches
Boening
   Automationstechnologie
CruzPro
Dometic Marine
Faria Beede Instruments
Frigus - Wema
Garmin
Hart Systems
Kobelt Manufacturing
KUS USA
Maretron
Oceanic Systems (UK)
Palladium Technologies
San Giorgio S.E.I.N.
Smart Switch Technologies
VDO Marine
Veethree Electronics &
   Marine
Veratron
Westberg Manufacturing

Fuses/Fuse Holders
ANCOR
Attwood
Blue Sea Systems
Bocatech Switches
Handi-Man Marine
Hella Marine
Littelfuse
Outdoor Solutions
   Electronics
Paneltronics
Sea-Dog Line
VETUS MAXWELL

Gateways
Across Ocean Systems
ACTISENSE (*Active Research
   Limited*)
Boatrax
Canadian Automotive
   Instruments
Digital Yacht America
Maretron
NoLand Engineering
Rose Point Navigation
   Systems
ShipModul

Gauges, Engine
(see Engine Monitoring)

Gauges, Seawater Temperature
(see Temperature
Monitoring)

Gauges, Tank Level
(see Tank Monitoring)

Generators
Coelmo
Cummins Onan Marine
Entec West
Fischer Panda
Flight Systems
Kohler Power
Mase Generators of North
   America
Mastervolt
Northern Lights
VETUS MAXWELL
Volvo Penta
Westerbeke

GMDSS Equipment
ACR Electronics
AEP Sales
Furuno USA
Icom America
ICS Electronics
Jotron USA
JRC Americas/Alphatron
   Marine USA
Kongsberg Maritime
L3Harris
McMurdo
Ocean Signal
Prescom
Samyung ENC
SAILOR
SEA COM

GPS Satellite Receivers
Ashtech
Atlastrax USA
   Communication
Axtech
Bad Elf
B&G - Navico Americas
Beam Communications
BriarTek
Digital Yacht America
Furuno USA
Garmin
GEM Elettronica
GeoPro
Hensoldt UK
Humminbird
ioStudioTech
JRC Americas/Alphatron
   Marine USA
Koden Electronics
Kongsberg Maritime
Lars Thrane
Livorsi Marine
Lowrance - Navico Americas
Maretron
Nobeltec
NovAtel
Oceaneering International
Onwa Marine Electronics
Raymarine
SAILOR
Samyung ENC
San Jose Technology
SevenStar Electronics
Simrad Yachting - Navico
   Americas

SI-TEX Marine Electronics
SkyMate
SPOT

Grounding Plates and Straps
D. Lilly & Co.
Guest - Marinco
Kalas Manufacturing
Lightning Prevention
   Systems
Marine Lightning Protection
Metal & Cable
Newmar

Hailers, Loud
Furuno USA
Standard Horizon

Indicators, Rudder Angle
Autonnic Research
B&G - Navico Americas
Boening
   Automationstechnologie
ComNav Marine
CruzPro
Davis Instruments
DEIF
Faria Beede Instruments
Furuno USA
Kobelt Manufacturing
Livorsi Marine
Maretron
NKE Electronics
Raymarine
San Giorgio S.E.I.N.
Simrad Yachting - Navico
   Americas
SI-TEX Marine Electronics
VDO Marine
Veratron
VETUS MAXWELL

Instrument Housings
Edson
NavPod
Scanstrut
Seaview

Instruments, Sail
B&G - Navico Americas
ComNav Marine
CruzPro
Digital Yacht America
DMI Marine
Free Technics
Furuno USA
Garmin
Maretron
Nexus - Garmin
NKE Electronics
Ockam Instruments
Raymarine
Sailmon
SIGNETMARINE
Simrad Yachting - Navico
   Americas
VDO Marine
Veratron

Intercom Systems
Aiphone
David Clark
Eartec
Newmar
Prescom
Setcom
Sonetics

Inverters
Analytic Systems
Atlas Marine Systems
La Marche Mfg.
Magnum Energy
Mastervolt
Newmar
OutBack Power
    Technologies
ProMariner
Tripp Lite
Victron Energy
Xantrex

Inverters/Chargers
Analytic Systems
Magnum Energy
Mastervolt
Newmar
OutBack Power
    Technologies
Tripp Lite
Victron Energy
Xantrex

Isolators, Battery
ACCUWATT Technologies
Balmar
Blue Sea Systems
Bocatech Switches
East Penn Manufacturing
Guest - Marinco
HD Power Solutions
Littelfuse
Mastervolt
Newmar
ProMariner
Tripp Lite
Victron Energy

Lighting, Interior/Deck
Abyss Technology
Accon Marine
AlpenGlow Marine Lights
Aqualuma
ASTEL MARINE
Attwood
Barnegat Light Marine
    Products
BEP
Boening
    Automationstechnologie
Cantalupi USA
Cero
Davis Instruments
DRSA
Equipson
Guest - Marinco
Hella Marine
Imtra
Innovative Lighting

ITC Marine
i2Systems
KJM
Larson Electronics
Lopolight
Lumastrobe Warning Lights
Lumishore
Lumitec
Lunasea Lighting
Navisafe
OceanLED USA
Perko
Progressive Dynamics
Quick USA
Rigid Industries LED Lighting
Sea-Dog Line
SeaSense
Sea Vision by Underwater
    Lights USA
Shadow-Caster Lighting
Smart Switch Technologies
Thin-Lite
VETUS MAXWELL
Vista Manufacturing
Weems & Plath
Whitecap

Lighting, Underwater
Abyss Technology
Aqualights
Aqualuma
ASTEL MARINE
Attwood
Barnegat Light Marine
    Products
Cantalupi USA
ITC Marine
Larson Electronics
Livorsi Marine
Lumishore
Lumitec
OceanLED USA
Ocean Systems
Sea-Dog Line
SeaView Underwater
    Technologies
Sea Vision by Underwater
    Lights USA
Shadow-Caster Lighting
Vista Manufacturing

Magnetrons
AEP Sales
Alphatron Marine USA/JRC
    Americas
Richardson Electronics/JRC
    Americas

Man Overboard Systems
ACR Electronics
Alltek Marine Electronics
Boening
    Automationstechnologie
BriarTek
Emerald Marine Products
FELL MARINE
Kannad Marine
Lunasea Lighting

McMurdo
Ocean Signal
Raymarine
Sea Marshall/Marine Rescue
    Technologies

Monitors, Marine/ Multifunction Displays (MFDs)
AEP Sales
Argonaut Technology
Aydin Displays
B&G - Navico Americas
Big Bay Technologies
Boening
    Automationstechnologie
Chetco Digital Instruments
Comark
ComNav Marine
DEIF
Digital View
EMA
Enovation Controls
E-Plex
Furuno USA
Garmin
Green Marine Monitors
Hatteland Technology
Humminbird
INSYNC Peripherals
Kongsberg Maritime
LCD Concepts
Lowrance
Maretron
Marine Craft
Marine PC
Moxa
Nautibus Electronic
Nautic Alert
Nauticomp
NAVIOP
NKE Electronics
North Invent Norway
Onwa Marine Electronics
Praxis Automation
    Technology
Q Experience
Raymarine
Samyung ENC
SeaCross Marine
Seatronx
Simrad Yachting - Navico
    Americas
SI-TEX Marine Electronics
Smart Switch Technologies
Sonavision
Speco Technologies
Sturdy
VarTech Systems
VDO Marine
Veethree Electronics &
    Marine
Veratron
Winmate USA
Yachtcontrol
Yacht Devices
Yamaha Motor

Mounts, Radar
D. Lilly & Co.

Edson
Garmin
Scanstrut
Seaview
Waltz Manufacturing

Navtex Receivers
Furuno USA
ICS Electronics
JRC Americas/Alphatron
    Marine USA
McMurdo
Morcom
SAILOR
Samyung ENC
Wartsila SAM Electronics

Night Vision
American Technologies
    Network
ComNav Marine
Current Scientific
EMX
FLIR Systems
Fujinon
GEM Elettronica
Insight Technology
Iris Innovations
Kongsberg Maritime
Omnisense Systems USA
Newcon Optik
Night Vision Devices
Northrop Grumman Sperry
    Marine
NVTS
Raymarine
SiOnyx

NMEA 2000® Certified Products
(see www.nmea.org)

Panels, Electrical
ACTIA-US
ANCOR
BEP
Blue Sea Systems
Bocatech Switches
Boening
    Automationstechnologie
Carling Technologies
Common Ground
Energy Solutions
Enovation Controls
Hella Marine
Imtra
JBOX
Kobelt Manufacturing
Mastervolt
NAVIOP
NAVYLEC
Newmar
Palladium Technologies
Paneltronics
PROS by Ditel
Red Lion Controls
Sea-Dog Line
Ultra Panel Marine
VETUS MAXWELL
Victron Energy

Whitecap
Yacht Devices

PLBs
(Personal Locator Beacons)
ACR Electronics
Garmin
GME
McMurdo
Ocean Signal

Plotters, GPS
(see Chart Plotters)

Power Supplies
Alinco
Analytic Systems
Astron
Atlas Marine Systems
DEIF
Divelbiss
E-Plex
Equipson
Floattech
Kalas Manufacturing
La Marche Mfg.
Marinco
Mastervolt
MFJ Enterprises
National Instruments
Newmar
Phoenix Contact
Speco Technologies
TE Connectivity
Tripp Lite
Zefatek

Radar
B&G - Navico Americas
Furuno USA
Garmin
GEM Elettronica
Hensoldt UK
Humminbird
Icom America
JRC Americas/Alphatron
    Marine USA
Klein - A MIND Technology
    Business
Koden Electronics
Kongsberg Maritime
Lowrance - Navico Americas
Nobeltec
Northrop Grumman Sperry
    Marine
Onwa Marine Electronics
Raymarine
Rose Point Navigation
    Systems
Russell Technologies
Rutter
Samyung ENC
SeaCross Marine
Simrad Yachting - Navico
    Americas
SI-TEX Marine Electronics
Taiyo Musen
Terma North America
Wartsila SAM Electronics

PRODUCTS

Radio Buoys
Kato Electronic
McMurdo
Ryokuseisha
Taiyo Musen

Radio Direction Finders
Furuno USA
Simrad Fisheries
Simrad Yachting - Navico Americas
Taiyo Musen

Radio Transceivers, Ham
Alinco
ICOM America
Kenwood USA
MFJ Enterprises
Yaesu - Standard Horizon

Radio Transceivers, SSB
Furuno USA
Icom America
JRC Americas/Alphatron Marine USA
MFJ Enterprises
SAILOR
SGC

Radio Transceivers, SSB Ringers/Encoders
Necode Electronics/Rhodes Electronics

Radio Transceivers, VHF Fixed Mount
(see VHF Fixed Mount)

Radio Transceivers, VHF Handheld
(see VHF Handheld)

Recorders and Data Loggers
(see Voyage Data Recorders)

SARTS
ACR Electronics
Alltek Marine Electronics
em-trak Marine Electronics
Jotron USA
JRC Americas/Alphatron Marine USA
McMurdo
Ocean Signal
SevenStar Electronics
Simrad Yachting - Navico Americas
Taiyo Musen
Wartsila SAM Electronics

Satellite Communications Airtime Service Providers
EMA
Eutelsat America
Explorer Satellite Communications
Garmin
GeoPro
GlobaFone
Global Eagle Entertainment
Globalstar
Inmarsat
Intelsat
Iridium
Isotropic Networks
KVH Industries
LinkWav
Marlink Group USA
Network Innovations
Norsat International
ORBCOMM
Pivotel Network
SatCom Global
Speedcast
Thuraya

Satellite Communications Equipment, Fleet Broadband
Addvalue Communications
Cobham SATCOM
Inmarsat
Intellian Technologies USA
Intelsat
JRC Americas/Alphatron Marine USA
KVH Industries
Norsat International
SAILOR
Wartsila SAM Electronics

Satellite Communications Equipment, Low Earth Orbit
EMA
Faria Beede Instruments
Globalstar
Icom America
Inmarsat
Iridium
Lars Thrane
Orolia USA
ORBCOMM
SkyMate

Satellite Communications Equipment, Standard C
Furuno USA
Inmarsat
JRC Americas/Alphatron Marine USA
SAILOR

Satellite Communications Equipment, VSAT
Cobham SATCOM
Global Eagle Entertainment
Inmarsat
Intellian Technologies USA
Intelsat
KVH Industries
Marlink Group USA
Norsat International

Satellite TV
(Stabilized)
Cobham SATCOM
Garmin
Intellian Technologies USA
KVH Industries
Modootel
Raymarine
SAILOR

Scramblers, Voice
ICOM America

Security Systems
(see Alarms, Security)

Ship's Monitoring Systems
(see Vessel Monitoring Systems)

SONARS
EchoPilot
FarSounder
Furuno USA
Garmin
HONDEX
Humminbird
iXBlue
JRC Americas/Alphatron Marine USA
J.W. Fishers Manufacturing
Klein - A MIND Technology Business
Koden
Kongsberg Maritime
Lowrance - Navico Americas
Marport Americas
Simrad Fisheries
Simrad Yachting - Navico Americas
SI-TEX Marine Electronics
Sonavision
Teledyne BlueView
WASSP
WESMAR

SONARS, Sidescan
EchoPilot
Garmin
Humminbird
J.W. Fishers Manufacturing
Klein - A MIND Technology Business
Koden
Kongsberg Maritime
Lowrance - Navico Americas
Raymarine
Simrad Yachting - Navico Americas
Sonavision
WASSP
WESMAR

Speakers, Communication
Equipson

GME
Icom America
Newmar
Poly-Planar
Shakespeare
Speco Technologies
Standard Horizon

Speakers, Stereo
Alpine
Aquatic
ASA Electronics/Jensen Marine
Bose
Clarion
Elettromedia
Equipson
Fusion Entertainment
GME
JBL
JL Audio
JVC U.S.A.
KICKER
MB Quart
Panasonic
Pioneer
Poly-Planar
Prospec Electronics
Rockford Fosgate
Sony
Speco Technologies
Wet Sounds

Steering Controls
Accu-Steer
ASTEL MARINE
Coursemaster/HyDrive USA
Dometic Marine
Edson
HamiltonJet
Interactive Technologies
Jastram Engineering
Kobelt Manufacturing
Lewmar
Madman Marine
Northrop Grumman Sperry Marine
Octopus Autopilot Drive Systems
PYI
Simrad Yachting - Navico Americas
Suzuki Motor of America
UFLEX USA
VETUS MAXWELL
Volvo Penta
ZF Marine Propulsion Systems Miramar

Stereo Systems
Aquatic
ASA Electronics/Jensen Marine
Bose
Clarion
Fusion Entertainment
GME
JL Audio
JVC U.S.A.
Kenwood USA
KICKER

Lowrance - Navico Americas
Medallion Instrumentation Systems
Panasonic
Pioneer
Poly-Planar
Prospec Electronics
Rockford Fosgate
Simrad Yachting - Navico Americas
Sony
Wet Sounds

Tank Monitoring
Blue Sea Systems
Bocatech Switches
Boening Automationstechnologie
Chetco Digital Instruments
CruzPro
Electronic Applications
E-Plex
E-T-A Circuit Breakers
Faria Beede Instruments
Free Technics
Frigus - Wema
Garnet Instruments
Gems Sensors & Controls
Gill Instruments
Hart Systems
King Engineering
Kongsberg Maritime
KUS USA
Maretron
Medallion Instrumentation Systems
MMC International
Moeller Marine Products
Oceanic Systems (UK)
San Giorgio S.E.I.N.
Smart Switch Technologies
Suzuki Motor of America
Tohatsu
VDO Marine
Veratron
VETUS MAXWELL
Westberg Manufacturing
Wi-Tronix
Yacht Devices

Telephone Systems, Wired
Integrated Display Technology (IDT)
Jotron USA
Panasonic
Toshiba

Temperature Monitoring
Across Ocean Systems
Airmar Technology
B&G - Navico Americas
Boening Automationstechnologie
Chetco Digital Instruments
CruzPro
E-T-A Circuit Breakers
Faria Beede Instruments
Fish Hawk Electronics

Frigus - Wema
Furuno USA
Garmin
Humminbird
KUS USA
Lowrance - Navico Americas
Maretron
Medallion Instrumentation
   Systems
Raymarine
SeaCross Marine
Sea-Dog Line
SI-TEX Marine Electronics
Tohatsu
WeatherHawk
Yacht Devices

Test Equipment, Marine
Across Ocean Systems
ACTISENSE *(Active Research
   Limited)*
AEP Sales
Airmar Technology
CDI Electronics
Cojali
Digital Yacht America
EDI/BBG
FLIR Systems
Fluke
GME
ioStudioTech
Kvaser
Maretron
Marine Electrical Products
Newmar
Shine Micro
ShipModul
Vector North America
Warwick Control
   Technologies
Zefatek

Testing and Certification, Marine Electronics Equipment
ACTISENSE *(Active Research
   Limited)*
AEP Sales
Bureau Veritas CPS-EAW
   Testing Labs
Maretron
Mystic Valley
   Communications
Warwick Control
   Technologies

Training, Schools
Broward College
Chesapeake College
Convergence of IT Devices
   Institute Busan
Gordon West Radio School
Horry Georgetown
   Technical College
IYRS School of Technology
   & Trades
Kingsborough Community
   College

Kodiak College
Korean Maritime and Ocean
   University
Landing School
Maritime Institute of
   Technology and Graduate
   Studies (MITAGS)
McFatter Technical College
MECO Training
Prescom
Quadrant Marine Institute
Skagit Valley College
Suncoast Technical College
United States Maritime
   Resource Center

Transducers
Airmar Technology
Boening
   Automationstechnologie
CruzPro
DEIF
Furuno USA
Garmin
Gems Sensors & Controls
Humminbird
JRC Americas/Alphatron
   Marine USA
Klein - A MIND Technology
   Business
Knudsen Engineering
Kongsberg Maritime
Lowrance - Navico Americas
Maretron
Oceanic Systems (UK)
Radarsonics
Raymarine
Simrad Fisheries
Simrad Yachting - Navico
   Americas
SI-TEX Marine Electronics
SKIPPER Electronics AS
Sonavision

Underwater Lights
(see Lighting, Underwater)

Vessel Monitoring Systems
ACCUWATT Technologies
Across Ocean Systems
ACTISENSE *(Active Research
   Limited)*
Aydin Displays
Boening
   Automationstechnologie
Chetco Digital Instruments
Digital Yacht America
EMA
EyeOnBoard
Fireboy - Xintex
Flight Systems
Garmin
Garmin Sweden
   Technologies AB
Golden Automation Systems
GOST
GPLink
Interactive Technologies
Klein - A MIND Technology
   Business

Kobelt Manufacturing
Kongsberg Maritime
Lumitec
Maretron
Marine Craft
MBW Technologies
Naocontrol
Nautic Alert
NAVIOP
Palladium Technologies
Praxis Automation
   Technology
Radamec Control Systems
RGM Industries
San Giorgio S.E.I.N.
SEESKY
Simrad Yachting - Navico
   Americas
Siren Marine
Smart Switch Technologies
Volvo Penta
Wartsila SAM Electronics
VarTech Systems
Wi-Tronix

Vessel Tracking Systems
Acclaimed Software
ACR Electronics
Atlastrax USA
   Communication
Beam Communications
Boatrax
EMA
EMMI Network
exactEarth
Faria Beede Instruments
GeoPro
GEM Elettronica
GOST
ioStudioTech
JouBeh Technologies
Kongsberg Maritime
Maretron
Marine Craft
Marine Guardian, The
Nautic Alert
Nautic-ON
Northrop Grumman Sperry
   Marine
Orolia USA
Prescom
Saab TransponderTech
Siren Marine
SkyMate
SPOT
StratumFive
Sure Action
Transas
Wi-Tronix
Yacht Sentinel

VHF Fixed Mount
B&G - Navico Americas
Cobra Electronics
Furuno USA
Garmin
GME
Icom America
Lowrance - Navico Americas

Onwa Marine Electronics
Raymarine
SAILOR
Simrad Yachting - Navico
   Americas
SI-TEX Marine Electronics
Standard Horizon
Uniden America

VHF Handheld
ACR Electronics
Cobra Electronics
GME
Icom America
Jotron USA
JRC Americas/Alphatron
   Marine USA
Lowrance - Navico Americas
McMurdo
Ocean Signal
SAILOR
Simrad Yachting - Navico
   Americas
Standard Horizon
Uniden America
Wartsila SAM Electronics

Voyage Data Recorders
Across Ocean Systems
ACTISENSE (*Active Research
   Limited*)
Free Technics
Furuno USA
Hensoldt UK
JRC Americas/Alphatron
   Marine USA
Kongsberg Maritime
Maretron
National Instruments
Northrop Grumman Sperry
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Transas
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Wi-Tronix
Yacht Devices

Watermakers
Aquagiv
Blue Water Desalination
Cruise RO Water and Power
FCI Watermakers
Lifestream Watersystems
Parker Water Purification
   (HRO/Sea Recovery)
Schenker
SK Watermakers
Spectra Watermakers

Weather Facsimile Systems
Furuno USA
JRC Americas/Alphatron
   Marine USA
Morcom
SAM Electronics
Taiyo Musen

Weather Instruments
AEP Sales

Airmar Technology
Autonnic Research
B&G - Navico Americas
Climatronics
Davis Instruments
DEIF
Furuno USA
Garmin
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JDC Electronic
LCJ Capteurs
Maretron
NAVIOP
Observator Instruments
R. M. Young
Simrad Yachting - Navico
   Americas
Swift Optical Instruments
WeatherHawk
Weems & Plath
Westberg Manufacturing
Yacht Devices

Weather Receivers, Satellite
BriarTek
Furuno USA
Garmin
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Raymarine
Simrad Yachting – Navico
   Americas
SiriusXM Marine
SkyMate
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Weather Services
C-MAP
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Wi-Fi
ACTISENSE *(Active Research
   Limited)*
Aigean Networks
Beacon Wi-Fi Technologies
Chetco Digital Instruments
Comar Systems
Digital Antenna
Digital Yacht America
EyeOnBoard
Locomarine/Yacht Router
Madman Marine
National Instruments
Palladium Technologies
PDQ Connect
RadioLabs
San Jose Technology
SatCom Global
Shakespeare
Wave WiFi
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BOAT BUILDERS

BOAT BUILDERS

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Website: www.beneteau-group.com

Brooklin Boat Yard
P.O. Box 143
Brooklin, ME 04616
PH: 207-359-2236
Email: bmorey@brooklinboatyard.com
Website: brooklinboatyard.com

Cayo Custom Boats
14550 62nd St. N.
Clearwater, FL 33760
PH: 727-444-0655
Email: sales@cayocustomboats.com
Website: www.cayocustomboats.com

Front Street Shipyard
101 Front St.
Belfast, ME 04915
PH: 207-716-6764
Email: bcarleton@frontstreetshipyard.com
Website: frontstreetshipyard.com

Hinckley Yacht Services
One Little Harbor Landing
Portsmouth, RI 02871
PH: 401-683-7211

Email: rchabot@hinckleyyachts.com
Website: www.hinckleyyachts.com

Lyman Morse Boatbuilding Inc.
84 Knox St.
Thomaston, ME 04861
PH: 207-354-6904
Email: steph@lymanmorse.com
Website: www.lymanmorse.com

Malibu Boats
5075 Kimberly Way
Loudon, TN 37774
PH: 865-657-6068
Email: benm@malibuboats.com
Website: www.malibuboats.com

Ranger Boats/White River Marine Group
927 Hwy. 178 N.
Flippin, AR 72634
PH: 870-704-2259
Email: jefferykay@rangerboats.com
Website: www.rangerboats.com

Sabre Yachts
12 Hawthorne Rd.
Raymond, ME 04071
PH: 207-655-3831
Email: tom@sabreyachts.com
Website: www.sabreyachts.com

Silver Ships Inc.
9243 Bellingrath Rd.
Theodore, AL 36582

PH: 251-973-0000
Email: sclarke@silverships.com
Website: www.silverships.com

Southport Boats
P.O. Box 38
650 River Ave.
South Gardiner, ME 04359
PH: 207-595-0498
Email: george@southportboats.com
Website: www.southportboats.com

Viking Yacht Co.
P.O. Box 308
New Gretna, NJ 08224
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Email: praposa@vikingyachts.com
Website: www.vikingyachts.com

Vita Yachts Ltd
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Email: peter.mckinlay@vita-power.com
Website: www.vita-power.com

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Port Angeles, WA 98363
PH: 360-452-5095
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Website: www.westportyachts.com

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Website: www.boatomatic.com

ABT-TRAC
Website: abttrac.com

Abyss Technology
Website: www.abysslite.com

AC Antennas A/S
Website: www.acantennas.com

Acclaimed Software Co. Ltd., The
Website: www.the-acclaimed.com

Accon Marine
Website: www.acconmarine.com

Accu-Steer, Inc.
Website: www.accu-steer.com

ACCUWATT Technologies
Website: accuwatt-technologies.com

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Products: EPIRBS, GMDSS Equipment, MOBs, PLBs, SARTS, Vessel Tracking Systems, VHF Handheld

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Website: www.actisense.com
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Service: support@actisense.com
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AEM Performance Electronics
Website: www.aemelectronics.com

Aetna Engineering
Website: www.aetnaengineering.com

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Website: www.airmar.com
Sales/Service: Jennifer Matsis
Products: Compasses - Fluxgate/Rate, Compasses - GPS, Depthsounders - Testing, Diagnostic Tools, NMEA 2000® Certified, Temperature Monitoring, Test Equipment - Marine, Transducers, Weather Instruments

Marine and industrial sensors. Marine products include depth transducers for recreational and commercial applications, SMART™ sensors provid-ing either NMEA 0183, NMEA 2000® or customer-specific protocols, paddlewheel and ultra-sonic speed sensors, ultrasonic WeatherStation® instruments, compass and GPS sensors, side scan transducers and other related accessories. Holds 40+ patents.

Airmoniq Pro Kft
Website: airmoniq.com

AirWave Marine
Website: www.airwavemarine.com

Alamarin-Jet Oy
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Alinco, Inc.
Website: www.alinco.com/global.html

Alltek Marine Electronics Corp.

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AlpenGlow Marine Lights, LLC
Website: www.alpenglowlights.com

Alphatron Marine USA

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ANCOR

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Website: www.apem.com

Aquagiv
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Aqualarm
Website: www.aqualarm.net

Aqualights
Website: aqualights.us

Aqualuma
Website: www.aqualuma.com

Aquatic AV Inc.

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Website: www.argonautcomputer.com

ARLT Technologies GmbH

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Email: joachim.arlt@t-online.de

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Ashtech OEM
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ASTEL MARINE
Website: www.astel-marine.com

ASTRA Yacht srl
Website: www.astrayacht.com

Astron Corp.
Website: www.astroncorp.com

Astronics Advanced Electronic Systems

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Kirkland, WA 98034
PH: 425-881-1700
Email: doug.brown@astronics.com
Website: www.astronics.com

Aircraft electrical power systems, including power generation and distribution. Manufacturer of in-seat power systems for laptops and other electronic devices with the EmPower product line. Innovator of electronic circuit breakers and power distribution systems for business aircraft with the CorePower product line.

ASV
Website: www.asvglobal.com

Atlas Marine Systems
Website: www.atlasmarinesystems.com

Atlastrax USA Communication

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Website: www.atlastraxusa.net
Sales: sales@atlastraxusa.net
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AU Electronics Group
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AVENTICS GmbH
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Axis Communications Inc.
Website: www.axis.com

Axtech AB
Website: www.axtech.se/en/

Aydin Displays
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Website: www.azimutmarine.es

Bad Elf, LLC
Website: bad-elf.com

Balmar

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Marysville, WA 98271
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Beacon Wi-Fi Technologies
Website: beaconwifi.com

Beam Communications Pty Ltd
Website: www.beamcommunications.com

Beier Integrated Systems
Website: www.beieris.com

Belden
Website: www.belden.com

BE Marine Technologies

Broyda Enterprises Pty Ltd
Unit 5, 68A St. Marks Rd.
Randwick
Sydney, 2031
AUSTRALIA
PH: 61293981511

Email: info@bemarine.com.au

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Beneq Inc.
Website: www.lumineq.com

Benmar Marine
Website: www.benmarmarine.com

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Blue Guard Innovations
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■ BlueNav

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FRANCE
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Website: www.blueoceaniot.blue
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Bose Corp.
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CPS-EAW Testing Labs
Website: www.cps.bureauveritas.com

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■ Calypso Instruments

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SPAIN
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Canadian Automotive Instruments Ltd.
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C&D Technologies Inc./Trojan Battery Company
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Cantalupi USA, Inc.
Website: www.cantalupiusa.com

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BELARUS 222416
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Website: www.jv-technoton.com
Sales: sales@technoton.by
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Remote monitoring of road and off-road trucks, locomotives, sea and river vessels, diesel generators (gensets), fuel storages and tanks, technological machines. Major parameters monitored are: fuel consumption, time and engine operation mode, volume and temperature of fuel, operation of attached equipment, axle load.

CDI Electronics

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Website: www.neptulink.com

Mystic Valley Communications
Website: www.nmea2000solutions.com

Naiad Dynamics
Website: www.naiad.com

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SPAIN
Email: naocontrol@naocontrol.com
Website: naocontrol.com,
   shipcontroller.com
Products: Control Systems - Engine, Engine Monitoring, Vessel Monitoring Systems

Designs and manufactures the Shipcontroller wireless remote control system, and other electronic automation equipment for motor boats and sailing.

National Instruments
Website: www.ni.com

NautAlert

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Monitor your vessel via mobile, tablet or desktop. NautAlert will send you a text and/or e-mail of any issues that arise.

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Website: www.nautibus.de

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Navisafe
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NAVYLEC
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Nearshorenetworks
Website: www.nearshorenetworks.com

Necode Electronics
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Network Innovations
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Nexus - Garmin
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Observator Instruments
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Website: www.powermaniausa.com

Praxis Automation Technology B.V.
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Radarsonics Inc.
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RadioLabs
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Richardson Electronics Ltd.

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Scandinavian Micro Systems Inc.

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FRANCE
PH: 33-547-748-131
Email: contact@sea-tags.com
Website: sea-tags.com

Sea-Tags wristbands continuously transmit a signal that is monitored by one or more telephones equipped with the Sea-Tags app. If a wristband is immersed or far away, the signal is interrupted and an alarm goes off on the phone app. The GPS position is recorded at the time of the incident. The system is fail safe.

SEESKY
Website: www.seesky.eu

Sensata Technologies
Website: airpax.sensata.com

Sentinel d.o.o.

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10 000 Zagreb
CROATIA
PH: 385-99-33-55-66-9
Email: info@sentinelmarine.net
Website: www.sentinelmarine.net
Service: support@sentinelmarine.net
Product: NMEA 2000® Certified

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Setcom Corp.
Website: www.setcomcorp.com

SevenStar Electronics Ltd
Website: www.sevenstarelectronics.com, www.sartech.com

SGC
Website: www.sgcworld.com

Shadow-Caster Led Lighting

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PH: 727-474-2877
Email: info@shadow-caster.com
Website: shadow-caster.com
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Shadow-Caster designs and manufactures a wide variety of marine LED lighting and control products. All products are made in the USA and backed by Shadow-Caster's superior warranty and support. Shadow-Caster offers a range of single color and multi-color lights, for above water and below water applications. Our products are applicable for small boats to large yachts. Shadow-Caster also specializes in total boat lighting control through NMEA 2000® or network connectivity to most major brand MFDs.

Shakespeare Electronic Products
Website: shakespeare-ce.com/marine

Shenzhen Jiuzhou Himunication Technology Co., Ltd.
Email: ge.sun@himunication.com

Shine Micro, Inc.

9405 Oak Bay Rd., Suite A
Port Ludlow, WA 98365
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SiriusXM Marine
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Sleipner Motor AS

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SmartPlug Systems
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Smart Yachts International Limited

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Allendale, NE47 9EE
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PH: 44-330-223-5514
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Sonavision Ltd.
Website: www.sonavision.co.uk

Sonetics Corp.
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Sony
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Soundmax Electronics Ltd.

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11-15 Chatham Rd. S.
Tsim Sha Tsui, Kowloon
HONG KONG
PH: 852-2141-1963
Email: roy.wu@soundmax.com.hk
Product: NMEA 2000® Certified

Speco Technologies
Website: www.specotech.com

Spectra Watermakers
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Sure Action Inc.
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Surrette Battery Co. Ltd.
Website: www.rollsbattery.com

Suunto
Website: www.suunto.com

Suzuki Fish Finder Co., Ltd.
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JAPAN
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Suzuki Motor of America, Inc.
Website: www.suzukimarine.com

Swift Optical Instruments, Inc.
Website: swiftoptical.com

Synerject SAS
Website: www.synerject.com

Taiyo Musen Co. Ltd.
Website: www.simrad.com

Tasman Bay Navigation Systems Ltd.

Website: www.expedition
   marine.com
Markets and sells Expedition based navigation and yacht racing systems.

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Email: info@tbs-electronics.nl
Website: www.tbs-electronics.nl
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Teledyne TSS
Website: teledyne-tss.co.uk

Telit Wireless Solutions

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Thuraya
Website: www.thuraya.com

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Email: jeff@tidesmarine.com
Website: www.tidesmarine.com
Service: customerservice@tidesmarine.com
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Website: www.timbolier.com

Times Microwave Systems
Website: www.timesmicrowave.com

Tocaro Blue
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Tohatsu Corp.
Website: www.tohatsu.com

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True Blue Power
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TURCK Inc.
Website: www.turck-usa.com

Twin Disc, Inc.

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Racine, WI 53405-3698
PH: 262-638-4000
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Website: www.twindisc.com
Sales: Doug Roe
Products: Control Systems - Engine, NMEA 2000® Certified

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TWS s.r.l.
Website: www.tws-holding.com/tws-italia

UFLEX USA Inc.
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Ultra Panel Marine Inc.
Website: www.ultrapanel.net

Underwater Lights Limited
Website: www.underwaterlights.com

Undheim Systems AS
Website: www.undheimsystems.com

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PH: 800-297-1023
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Products: VHF Fixed Mount, VHF Handheld

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**United States
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Website: usmrc.org

VarTech Systems Inc.
Website: www.vartechsystems.com

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Verhaar Omega B.V.
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Vesper Marine Ltd.

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VideoRay LLC
Website: www.videoray.com

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Volvo Penta of the Americas, Inc.
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Warwick Control Technologies

Unit 3, Block A7
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Watcheye Navigation
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Watermakers, Inc.
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Wavetamer Partners, LLC

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Charlotte, NC 28208
Email: lauten@wavetamer.com

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Oakland Park, FL 33334-4804
PH: 954-928-1310
Email: jeff@wavewifi.com
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Sales: sales@wavewifi.com
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weBoost (Wilson Electronics, Inc.)
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Weems & Plath
Website: www.weems-plath.com

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Website: www.weldoninc.com

Wesgarde
Website: www.wesgarde.com

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Website: www.wesmar.com

Westberg Manufacturing Inc.
Website: www.westach.com

Westerbeke Corp.

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Winmate USA
Website: www.winmate-rugged.com

Wi-Tronix, LLC
Website: www.wi-tronix.com

WxWorx
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Xantrex

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Xinuo Information Technology (Xiamen) Corp. Ltd.
Website: www.xinuo.com

XM WX Satellite Weather
Website: www.xmwxweather.com

Yachtcontrol BV
Email: info@yachtcontrol.nl

Yacht Devices Ltd.

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Email: agorlach@yachtdevices.com
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Yacht Energy US
Website: www.dockingcontroller.com

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Yamaha Marine Test Facility

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Bridgeport, AL 35740
PH: 256-495-3500
Email: keith_vince@yamaha-motor.com

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Website: www.yamaha-motor.com

Yanmar Marine International B.V.

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Service: michael_dollfuss@yanmar.com
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Sales: Tatsuya Yashiro
Products: Autopilots, Compasses - Gyro

Navigation equipment and systems including gyrocompasses, autopilots, and electromagnetic logs. U.S. distributor: AGMarine, Inc., PH: *1-253-851-0862, sales@agmarine.com, www.agmarine.com.*

Zefatek Co., Ltd.

326-4 Gasandong
Geumcheonku, Seoul, 153802
REPUBLIC OF KOREA
PH: 82-2-862-9300
Email: dblim@zefa.co.kr
Website: www.zefa.co.kr
Sales: Doo Byong Lim
Products: Converters - Power, Diagnostic Tools, Power Supplies, Test Equipment - Marine

Test and measurement instruments: Battery pack tester, battery internal resistance meter, GPIB-USB converter, GPIB-LAN converter, programmable DC power supplies, very high voltage DC power supplies, electrostatic chuck controllers, and various hybrid ICs.

ZF Marine Propulsion Systems Miramar, LLC

15351 S.W. 29th St., Suite 300
Miramar, FL 33027
PH: 954-441-4040
Email: aida.nichols@zf.com
Website: www.zfmarinecontrols.com
Products: Control Systems - Engine, NMEA 2000® Certified, Steering Controls

Manufactures multi-station remote propulsion controls for vessels ranging from 25' to 400'. The ZF product line includes ClearCommand, MicroCommander, CruiseCommand, Smart Command, Mini-Command, and joystick control systems. Most products meet both CE and Type Approval requirements. ZF Marine is one of the world's largest manufacturers of marine propulsion systems.

Zinnos Inc.
Website: www.zinnos.com

▉ Zipwake AB

Skeppet Arans Vag 3
SE-426 71 Vastra Frolunda
SWEDEN
PH: 46-31-24-7775
Email: mats.skold@zipwake.com
Website: www.zipwake.com

Zipwake Dynamic Trim Control system.

The complete 2021 - 2022 Buyers' Guide is also available on your smart phone, computer and tablet. Go to www.nmeaboater.com and click on Buyers' Guide.

www.nmeaboater.com

DEALERS

Dealers of the National Marine Electronics Association provide high quality sales, installation and service of marine electronics nationwide. **Master Dealers are noted in purple and marked with a star.** Master Dealers have at least one Certified Marine Electronics Technician (CMET).

MASTER DEALERS

The National Marine Electronics Association (NMEA) is expanding a program that allows boaters to identify marine electronics dealers who are committed to education, technical proficiency, and customer service consistent with NMEA's high standards. It is called the Master Dealer Program.

To qualify, dealerships must have at least one Certified Marine Electronics Technician (CMET) on staff and meet requirements for technical education and proper use of specific test equipment. A point system based on technical courses that are completed successfully is used to determine a dealership's eligibility.

"The Master Dealer Program is a key component in our pledge to the boating public that NMEA dealers have the knowledge and expertise to deliver superior customer service," said Mark Reedenauer, NMEA President & Executive Director. "We want boaters to know that when they see the Master Dealer logo, they're getting the best service, equipment, and advice in the marine industry."

Current Master Dealers

Atlantic Marine Electronics – NJ
Electronics Unlimited – FL
L & L Electronics – CT
Larsen Marine Service – IL
Lunde Marine Electronics – WA
Maritime Communications – CA
Martek of MD – MD
Midcoast Marine Electronics – ME

Oceanwide Electronics – FL
Pete's Marine Electronics – ME
SW Florida Marine Technologies – FL
Technical Marine Support – WI
Voyager Marine Electronics – MA
Voyager Maritime Alliance Group – FL
Yachtronics – FL
Young's Electronic Systems – MA

Alabama

New World Electronics Inc
14060 S. Wintzell Ave., Suite D
Bayou La Batre, AL 36509
PH: 251-824-7554
Email: holly.younce@newworldelectron.com

Xtreme Marine Electronics
4780 Wharf Park Way, Suite F-104
Orange Beach, AL 36561
PH: 251-981-1466
Email: charlie@xtrememe.com
Website: www.xtrememe.com

Alaska

Boat Shop Inc
1050 Chena Pump Rd.
Fairbanks, AK 99709
PH: 907 452 4032
Email: daven@boatshopak.com
Website: www.boatshopak.com

Communications North
P.O. Box 2009
204 Nash Rd.
Seward, AK 99664
PH: 907-599-0150
Email: mike@communicationsnorth.com
Website: www.communicationsnorth.com

South Central Radar
4406 Homer Spit Rd.
Homer, AK 99603
PH: 907-235-8008
Email: mark@southcentralradar.com
Website: www.southcentralradar.com

Arkansas

Rothwell Marine
1021 W. 3rd St.
Hope, AR 71801
PH: 870-777-6180
Email: sales@rothwellmarine.com
Website: www.rothwellmarine.com

California

Alcom Marine Electronics
711 W. 17th St., Unit C-12
Costa Mesa, CA 92627
PH: 949-515-1727
Email: robert@alcommarine.com
Website: www.alcommarine.com

Beacon Marine Electronics Inc.
3401 W. 5th St., Suite 150
Oxnard, CA 93030
PH: 805-985-9828
Email: joel@beaconmarineelectronics.com
Website: www.beaconmarineelectronics.com

Cal Marine Electronics Inc.
Pier 40, The Embarcadero, Suite 14
San Francisco, CA 94107
PH: 415-391-7550
Email: stephen@calmarineelectronics.com
Website: www.calmarineelectronics.com

Channel Coast Marine
2945 W. 5th St.
Oxnard, CA 93030
PH: 805-985-0220
Email: marcccm@aol.com
Website: www.channelcoastmarine.com

Crew West/Oceans Marine Electronics Inc
1001 W. 17th St., Unit L-2
Costa Mesa, CA 92627
PH: 949-646-4346
Email: office@crewwest.com
Website: www.crewwest.com

Dixon Marine Inc.
2907 Shelter Island Dr., Suite 105-265
San Diego, CA 92106
PH: 619-851-8260
Email: jim@dixonmarineinc.com
Website: www.dixonmarineinc.com

GVG Electronics LLC DBA Ocean Blue Electronics
109 Pacer
Irvine, CA 92618
PH: 954-547-7007
Email: glen@oceanblueelectronics.com

Hammond Marine Electronics
2907 Jones St., Pier 47
San Francisco, CA 94133
PH: 415-440-5300
Email: hammondmarine@sbcglobal.net

Honor Marine Communications
1804B Cleveland Ave.
National City, CA 91950
PH: 619-233-7666
Email: scott@honormarine.com
Website: www.honormarine.com

Johnson Hicks Marine Electronics
333 Lake Ave., Suite C
Santa Cruz, CA 95062
PH: 831-475-3383
Email: vince@johnsonhicksmarine.com
Website: www.johnsonhicksmarine.com

Long Beach Marine Electronics LLC
6400 E. Marina Dr., Unit 4
Long Beach, CA 90803
PH: 562-594-8888
Email: sylvain@longbeachmarine.com
Website: www.longbeachmarine.com

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766 Washington Blvd.
Marina Del Rey, CA 90292
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Email: maritime@maritimecomm.com
Website: www.maritimecomm.com

Seaside Marine Electronics
1760 Monrovia Ave., Suite C-6
Costa Mesa, CA 92627
PH: 949-675-7866

Email: seasidemarine@att.net

Shelter Island Marine Electronics
2330 Shelter Island Dr., #101
San Diego, CA 92106
PH: 619-223-2182
Email: ed@explorermarineinc.com
Website: shelterislandmarineelectronics.com

Constellation Marine Electronics
173 Ferry Blvd.
Stratford, CT 06615
PH: 203-980-2876
Email: jlaska@constellationmarineelectronics.com
Website: www.constellationmarineelectronics.com

Dockside Electronics Service LLC
18 Stafford St.
Mystic, CT 06355
PH: 860-536-1919
Email: tim@dockside-electronics.com
Website: www.dockside-electronics.com

Hackett Services Group LLC
7365 Main St., #313
Stratford, CT 06614
PH: 203-258-1533
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300 E. Main St.
Branford, CT 06405
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Website: www.llelectronics.com

New England Marine Electronics LLC
130B Water St.
Norwalk, CT 06854
PH: 203-857-0801
Email: info@newenglandmarineelectronics.com
Website: www.newenglandmarineelectronics.com

Rudy Marine
411 S. Maryland Ave.
Wilmington, DE 19804

PH: 302-999-8735
Email: riyan@rudymarine.com
Website: www.rudymarine.com

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Dania Beach, FL 33004
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Atlantic Radio Telephone
2495 N.W. 35th Ave.
Miami, FL 33142
PH: 305-405-7173
Email: ysora@atlanticrt.com
Website: www.satphonestore.com

Concord Marine Electronics
2233 S. Federal Hwy.
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Email: michael@concordelectronics.com
Website: www.concordelectronics.com

Cotton Country Marine LLC
5091 Booker Lane
Jay, FL 32565
PH: 850-601-5988
Email: cottoncountrymarine@gmail.com
Website: cottoncountrymarine.com

Custom Marine Electronics LLC
4406 S.E. Commerce Ave.
Stuart, FL 34997
PH: 772-210-5832
Email: joe@cmefl.com
Website: cmefl.com

Duys Marine Electronics Corp.
790 Mullet Rd., Suite 42
Cape Canaveral, FL 32920
PH: 321-799-2340
Email: duysmarine@bellsouth.net

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Website: www.elec-unlimited.com

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Ft. Myers, FL 33919
PH: 239-936-6463
Email: alan@felixmarine.com
Website: www.felixmarine.com

Galati Yacht Sales
P.O. Box 862
Anna Maria, FL 34216
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Email: estammer@galatiyachts.com
Website: galatiyachts.com

Georges Marine Electronics Inc.
628 New Warrington Rd.
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Website: globalsatellite.us

Gulfstream Marine Services
10550 72nd St., Suite 506
Largo, FL 33777
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Email: susie@gsmarine.com
Website: www.gsmarine.com

Hampton Electronics
227 Royal Poinciana Way, Suite 131
Palm Beach, FL 33480
PH: 561-704-2288
Email: suntree781@aol.com

High Seas Technology Inc.
2965 W. State Rd. 84
Ft. Lauderdale, FL 33312
PH: 954-584-6000
Email: aliismail@highseastechnology.com
Website: www.highseastechnology.com

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4215 Gulf Blvd.
St. Pete Beach, FL 33706
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Email: carol@hwhelectronics.com
Website: www.hwhelectronics.com

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13647 2nd Ave. N.E.
Bradenton, FL 34212
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Website: www.innovativemarineservices.com

International Marine LLC
3455 High Ridge Rd.
Boynton Beach, FL 33426
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Email: mreimer@internationalmarineservice.com
Website: www.internationalmarineservice.com

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401 S.E. 30th St.
Ft. Lauderdale, FL 33316
PH: 954-524-3177
Email: greg@islandmarineelectric.com
Website: www.islandmarineelectric.com

Island Marine Services of Treasure Coast
1003 Seaway Dr.
Ft. Pierce, FL 34949
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Email: steve@islandmarinetech.com
Website: www.islandmarinetech.com

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3776 S.W. 30th Ave.
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Website: www.johnsonelectronics.com

J-Tek Solutions
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Stuart, FL 34997
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Email: jack@j-teksolutions.com
Website: j-teksolutions.com

Keys Marine Electronics Inc.
90290 Overseas Hwy., Suite 104
Tavernier, FL 33070
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Email: contact@keysmarine.net
Website: www.keysmarineelectronics.com

Langer-Krell Marine Electronics Inc.
405 N.W. South River Dr.
Miami, FL 33128
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Email: info@langerkrell.com
Website: www.langerkrell.com

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7940 Front Beach Rd., #163
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Email: lhspiva@gmail.com

Marine Electronic Solutions Inc.
3866 Prospect Ave., Suite 15
West Palm Beach, FL 33404
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Email: sales@mes-fl.com
Website: www.mes-fl.com

MarineMax Yacht Service Center
6810 Gulfport Blvd.
South Pasadena, FL 33707
PH: 727-343-6520
Email: john.tenney@marinemax.com
Website: marinemax.com

Marine Professionals Inc.
3112 S.E. 4th Ave
Ft. Lauderdale, FL 33316
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Website: www.marineprofessionals.com/mpi

Maz Ocean Inc.
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Website: www.mazocean.com

McLaughlin Marine Electronics Inc.
3577 S.W. 10th St.
Pompano Beach, FL 33069
PH: 954-975-2112
Email: jim@mclaughlinmarine.com

Website: www.
mclaughlinmarine.com

METCo - Marine Electronics of the Treasure Coast
619 N.W. Baker Rd.
Stuart, FL 34994
PH: 772-600-5701
Email: mark@marine
electronicstc.com
Website: www.marine
electronicstc.com

Nature Coast Marine Electronics Inc.
4320 Bessemer Rd.
Brooksville, FL 34602
PH: 352-232-5129
Email: naturecoastelec@
bellsouth.net
Website: www.ncmarine
electronics.com

Nauti-Tech Inc.
3219 S. Andrews Ave.
Ft. Lauderdale, FL 33316
PH: 954-527-0716
Email: jack@
nauti-tech.com
Website: www.
nauti-tech.com

Ocean Currents Marine Inc.
2713 Park Dr.
Lantana, FL 33462
PH: 561-281-1626
Email: rob@ocean
currentsmarine.com
Website: www.ocean
currentsmarine.com

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204 S.W. Winnachee Dr.
Stuart, FL 34994
PH: 772-266-9300
Email: info@oefla.com
Website: www.oceanwide
electronics.com

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19900 Mona Rd.,
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Tequesta, FL 33469
PH: 561-746-1447
Email: stefan@offshore
connectioninc.com
Website: www.offshore
connectioninc.com

Offshore Marine Electronics Inc.
2175 Idlewild Rd.
Palm Beach Gardens, FL
33410
PH: 561-408-2467
Email: jmaier@offshore
marineelectronics.com

Website: www.offshore
marineelectronics.com

Poseidon Marine Electronics
3825 Investment Lane,
Suite 7
West Palm Beach, FL
33404
PH: 561-232-2413
Email: ggouveia@
poseidonelectronics.com
Website: www.
poseidonelectronics.com

RAAM Marine Electronics Inc.
7105 N.E. 67th St.
Tamarac, FL 33321
PH: 954-448-9783
Email: raammarine@
aol.com

Redfish Marine
3800 S. U.S. Hwy. 1
Grant, FL 32949
PH: 321-290-2850
Email: info@
redfishmarine.com
Website: redfish
marine.com

Right Side Marine
728 West Ave., #180
Cocoa, FL 32927
PH: 321-412-1749
Email: joe@
rightsidemarine.com
Website: www.
rightsidemarine.com

Riverside Marine Electronics
3750 N.W. 28th St.,
Unit 406
Miami, FL 33142
PH: 786-287-6136
Email: info@
marineelec.com
Website: www.
marineelec.com

Seamark Electronics Inc.
230 20th St.
Marathon, FL 33050
PH: 305-743-6633
Email: bert@seamark
electronics.com
Website: www.seamark
electronics.com

Sea Tech Marine Electronics
3639 Bayshore Dr.
Naples, FL 34112
PH: 239-430-1111
Email: bookkeeper@
seatech.net
Website: www.seatech.net

Service 1st Mobile Marine
P.O. Box 144
Palm Harbor, FL 34683
PH: 727-638-8484
Email: service1st@
tampabay.rr.com
Website: www.
service1stmarine.com

Stump Pass Marina Services LLC
260 Maryland Ave.
Englewood, FL 34224
PH: 941-697-2206
Email: maria@
stumppass.net
Website: stumppass.net

⭐ **SW Florida Marine Technologies**
4519 S.E. 16th Pl., #104
Cape Coral, FL 33904
PH: 239-463-3500
Email: tomswfmt@
yahoo.com
Website: www.electronics
marineservice.com

Tampa Bay Yacht Management
200 2nd Ave. S., #492
St. Petersburg, FL 33701
PH: 727-433-8296
Email: info@tbyacht.com
Website: tbyacht.com

⭐ **Voyager Maritime Alliance Group**
1883 W. State Rd. 84,
Bldg. 2, Suite 105
Ft. Lauderdale, FL 33315
PH: 954-463-5910
Email: jim@vmag.cc
Website: www.vmag.cc

⭐ **Yachtronics Inc.**
626 S.W. 4th Ave.
Ft. Lauderdale, FL
33315
PH: 954-763-1618
Email: dave@
yachtronics.com
Website: www.
yachtronics.com

Georgia

Maricom Navigation
2823 River Dr.
Savannah, GA 31404
PH: 912-777-4139
Email: maricom
navigation@comcast.net
Website: www.
maricomnavigation.net

Marine Installers
704 Stonecrest Lane
Loganville, GA 30052
PH: 678-832-9105

Email: marineinstallers@
bellsouth.net

Hawaii

Navtech Marine Electronics
293 Kalihi St.
Honolulu, HI 96819
PH: 808-848-7600
Email: barney.cagle@
navtechmarine.com
Website: www.
navtechmarine.com

Illinois

Chicago Marine Electronics & Yacht Svcs
212 E. Crescent Ave.
Elmhurst, IL 60126
PH: 630-501-1938
Email: achilles@
chicagomarine
electronics.com
Website: www.chicago
marineelectronics.com

⭐ **Larsen Marine Service**
625 E. Sea Horse Dr.
Waukegan, IL 60085
PH: 847-336-5456
Email: kkriegel@
larsenmarine.com
Website: www.
larsenmarine.com

Kentucky

Sick Speed Marine Electronics
116 Ben Way Dr., Suite B
Somerset, KY 42501
PH: 606-341-1153
Email: nick@
sickspeedmarine.com
Website: sickspeed
marine.com

Louisiana

Bayou Marine Electronics Inc.
5125 Paris Rd.
Chalmette, LA 70043
PH: 504-279-0967
Email: sales@
bayoumarine.com
Website: www.
bayoumarine.com

Beier Integrated Systems
1150 N. Causeway Blvd.
Mandeville, LA 70471
PH: 504-341-0123
Email: bzornman@
beierradio.com

Website: www.beieris.com

Sea-Trac Offshore
114 Hickory Ave.
New Orleans, LA 70123
PH: 504-737-0591
Email: lyle@
seatracoffshore.com
Website: www.
seatracoffshore.com

Maine

Blackmore Electronics
P.O. Box 82
21 Granite St.
Stonington, ME 04681
PH: 207-367-2703
Email: blackmore57@
myfairpoint.net

Great Island Boat Yard
419 Harpswell Islands Rd.
Harpswell, ME 04079
PH: 207-729-1639
Email: mick@great
islandboatyard.com
Website: www.great
islandboatyard.com

Kramp Electronics Inc.
P.O. Box 108
57A Dow Point Rd.
Seal Cove, ME 04674
PH: 207-244-3035
Email: robert@
krampelectronics.com

⭐ **Midcoast Marine Electronics**
129 Lakeview Rd
Rockland, ME 04841
PH: 207-594-3993
Email: info@
midcoastmarine.biz
Website: www.
midcoastmarine.com

Navtronics LLC
15 Hannaford Dr.
York, ME 03909
PH: 207-363-1150
Email: tgreer@
navtronics.com
Website: www.
navtronics.com

⭐ **Pete's Marine Electronics Inc.**
101 Washington Rd.
Waldoboro, ME 04572
PH: 207-832-5707
Email: petesmarine@
yahoo.com

Winsor Consulting Inc.
11 Pitcher Rd.
Northport, ME 04849
PH: 207-691-6350

Email: winsorconsulting@
   gmail.com
Website: www.
   winsorconsulting.me

**Yankee Marina &
Boatyard Inc.**
P.O. Box 548
142 Lafayette St.
Yarmouth, ME 04096
PH: 207-846-4326
Email: adam@
   yankeemarina.com
Website: www.
   yankeemarina.com

Maryland

A & BC Services LLC
950 Hudson Rd.
Cambridge, MD 21613
PH: 410-901-9993
Email: bill@
   aandbcservicesllc.com
Website: www.
   aandbcservicesllc.com

Annapolis Boat Sales
1629 Postal Rd.
Chester, MD 21619
PH: 410-739-7598
Email: cory@
   annapolisboatsales.com
Website: annapolis
   boatsales.com

**Bay Marine
Technology LLC**
P.O. Box 1156
Solomons, MD 20688
PH: 410-326-4014
Email: baytech@
   comcast.net
Website: www.
   baymarinetech.com

BOE Marine
325 Cleat St.
Stevensville, MD 21666
PH: 443-458-4258
Email: jim@
   boemarine.com
Website: www.
   boemarine.com

**Haven Harbour
Marina LLC**
20880 Rock Hall Ave.
Rock Hall, MD 21661
PH: 410-778-6697
Email: email@
   havenharbour.com
Website: www.
   havenharbour.com

J Gordon & Co.
726 2nd St.
Annapolis, MD 21403
PH: 410-263-0054
Email: accounting@
   jgordonco.com

Website: www.
   jgordonco.com

**Marine Electric
Systems**
326 First St., Suite 400
Annapolis, MD 21403
PH: 410-263-0807
Email: info@marine
   electricsystems.net
Website: www.marine
   electricsystems.net

**Marine Technical
Services**
Herrington Harbour
North Marina
P.O. Box 249
389 Deale Rd.
Tracys Landing, MD
   20779
PH: 410-867-0676
Email: ryan@gomts.net
Website: www.gomts.net

⭐ **Martek of MD Inc.**
   9917 Stephen Decatur
   Hwy., Unit #5
Ocean City, MD 21842
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Email: matt@
   martekmd.com
Website: www.
   martekmd.com

Mid-Shore Electronics
205 Trenton St.
Cambridge, MD 21613
PH: 410-228-7335
Email: frank@mid-
   shore-electronics.com
Website: www.mid-
   shore-electronics.com

**Smart Marine
Electronics Inc.**
111 Forbes St., Suite 101
Annapolis, MD 21401
PH: 443-221-2696
Email: info@smartmarine
   electronics.com
Website: www.smart
   marineelectronics.com

Steve's Marine Service
307 Main St.
Stevensville, MD 21666
PH: 410-231-3191
Email: steve@steves
   marineservice.com
Website: www.steves
   marineservice.com

**Turnkey
Yacht Services**
*dba Annapolis Harbor Boat
Yard*
326 First St., Suite 500
Annapolis, MD 21403
PH: 410-268-0092

Email: jnorton@
   annapolisharbor.net

**Washburn's
Boat Yard Inc.**
P.O. Box 1169
Solomons, MD 20688
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Email: wbyeric@
   chesapeake.net
Website: www.wash
   burnsboatyard.com

Massachusetts

Blue Frontier LLC
196 High Rd.
Newbury, MA 01951
PH: 978-360-8137
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   blue-frontier.com
Website: www.
   blue-frontier.com

**Boatworks -
Marblehead Trading**
89 Front St.
Marblehead, MA 01945
PH: 781-631-7565
Email: boatworks@
   marbleheadtrading.com
Website: www.
   marbleheadtrading.com

Chris Electronics Corp.
7 Little Bay Rd.
Fairhaven, MA 02719
PH: 508-994-8257
Email: dave@
   chriselectronics.net
Website: www.
   chriselectronics.net

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Sales Inc.**
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Email: doug@
   easternyacht.com
Website: www.
   easternyachtsales.com

**Kingman
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P.O. Box 408
1 Shipyard Lane
Cataumet, MA 02534
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   kingmanyacht
   center.com
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   manyachtcenter.com

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2021-2022 BUYERS' GUIDE

A GUIDE TO
BOATING
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What you should know when buying electronics for your boat

Look for NMEA quality and certification when you want to source, buy, install or service reliable marine electronics for your boat

The members of the National Marine Electronics Association [NMEA] are among the most knowledgeable in the world of marine electronics. They consist of more than 600 companies representing 5,000 professionals in the marine electronics industry, including electronics manufacturers, dealers, installers, distributors, boat builders, trade associates and sales representatives.

What does the NMEA mean to you?

The NMEA, along with the expertise of its members, continuously develops tools, training, and standards that ensure quality products, installation and service. For more than 55 years, the NMEA has created standards and professional installation guidelines for marine electronics to make boating safer and more fun. The NMEA also sets standards and provides training for the technicians who install and service your electronics. These technical and training standards are used internationally for navigation, communications, entertainment, and systems integration. As electronics technology changes rapidly, the NMEA diligently updates the standards for the benefit of all boating consumers.

NMEA quality and certification are not an advertising pitch—they're a guarantee that the marine electronics installed on your boat will play nicely and cooperatively on your boat's network.

For boaters, NMEA quality and certification mean that when electronics are powered up they will perform the way they are supposed to.
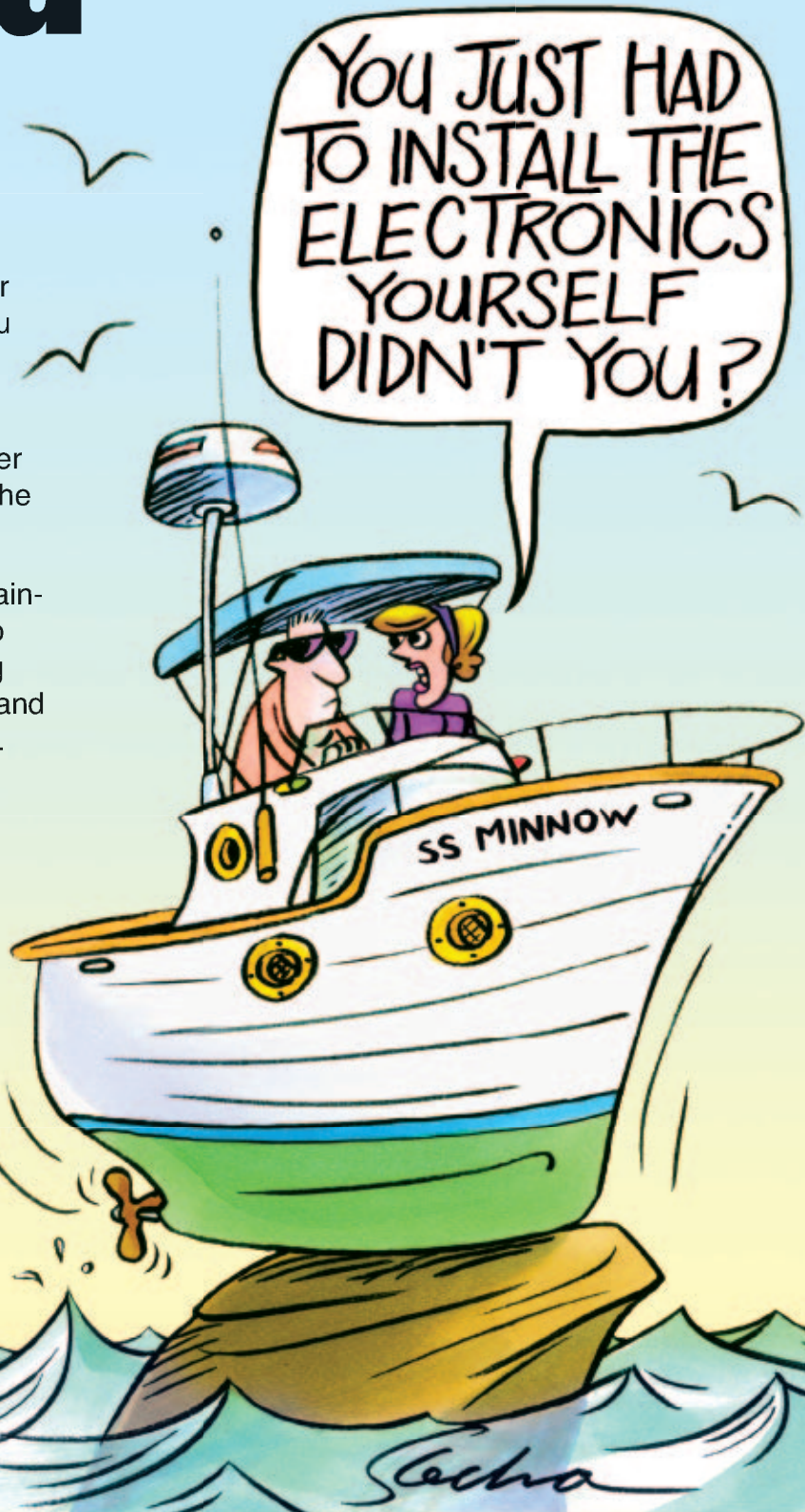
Why are standards important for the boater?

NMEA standards ensure that all electronics will interconnect physically and electrically and function as intended, without creating problems for other devices. Additionally, safe installation practices insure reliability, safety and reduce the risk of electrical fires.

Look for the NMEA logo

When you see the NMEA logo, you know that a marine electronics manufacturer, dealer, or installer is serious about product quality and customer care.

NMEA members are committed to education, technical proficiency, and customer service. They are dedicated to providing excellence in manufacturing, customer service, and after-sales service for all boaters.

NMEA dealers and installers will educate you about your electronics and troubleshoot any problems.


What are the NMEA standards?

- **NMEA 2000®**
  A marine standard for high-speed data exchange for most boat electronics. If the product doesn't say "NMEA 2000 certified" it is not compliant and may be unsafe.

- **NMEA OneNet®**
  A supplement to NMEA 2000 that will provide added functionality and speed. OneNet is the newest IPv6 marine ethernet standard designed to transfer NMEA 2000 and video signals such as sonar and radar.

- **NMEA 0183**
  The marine standard for instrument serial data exchange.

- **NMEA 0400**
  The marine electronics installation standard for technicians.

What are the NMEA certifications?

- Master Dealer
- Basic Marine Electronics Installer (MEI)
- Basic NMEA 2000® Network Installer
- Advanced Marine Electronics Installer (AMEI)
- Advanced NMEA 2000® Network Installer
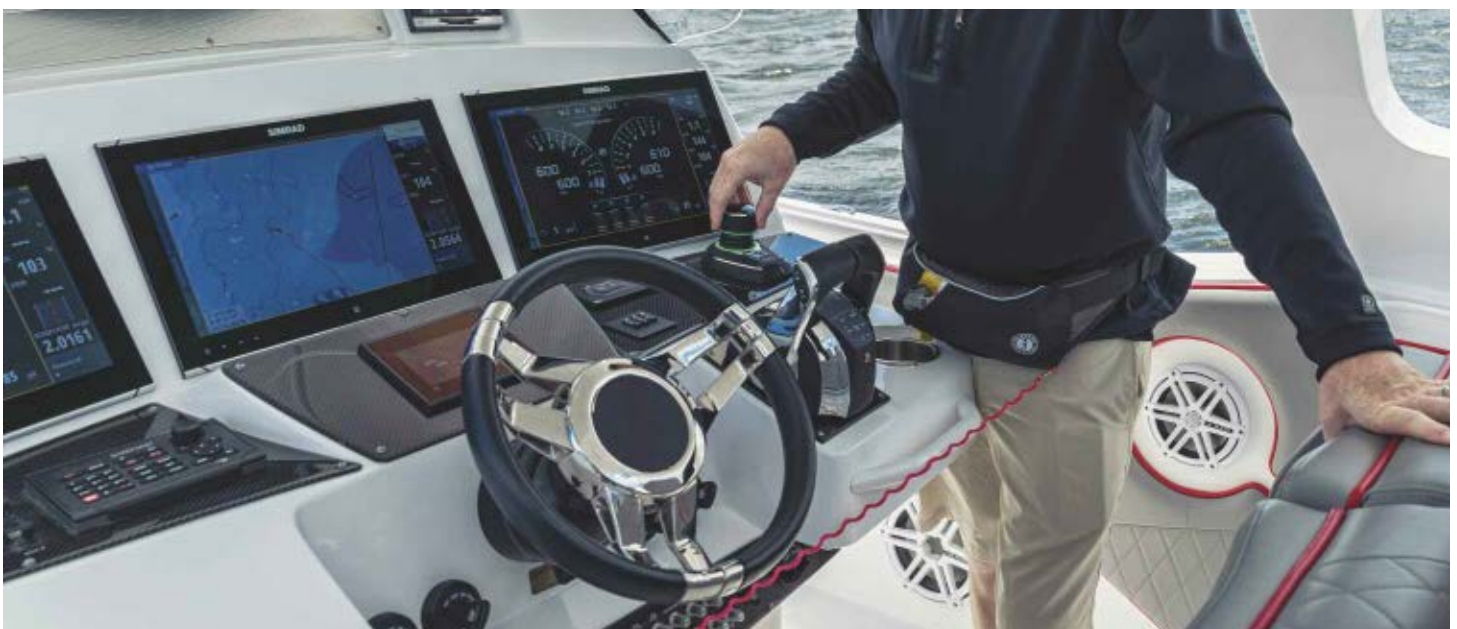
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