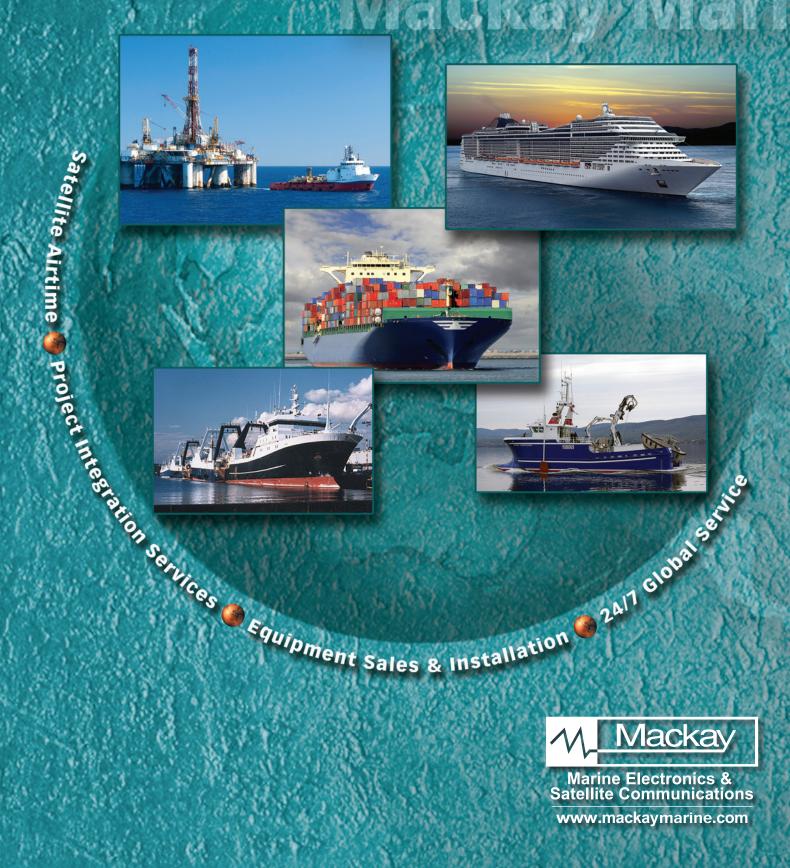
Mackay Marine



Mackay Marine

Leaders in Marine and Offshore Electronics

Complete Portfolio of **Electronic Equipment**

COMMUNICATIONS

Entertainment Interior Comm. Systems Network Mgr. & Cyber Security Radios - Handheld & Fixed-Mount Satellite Terminals & Airtime Sound Reception Systems

NAVIGATION

AutoPilot / Gyros Chart Plotters/ECDIS Depth Sounder **GPS & Compass** Integrated Bridge Radar / ARPA Situation Awareness (AI) Speed LOGs Steering Systems Weatherfax

SAFETY & SECURITY

Anti-Piracy Systems AIS / LRIT Bridge Alarm (BNWAS) **CCTV & Video Compression** EPIRBs / GPIRBs Fire Detection & Suppression **GMDSS NAVTEX** Search & Rescue (SART) Ship Security Alert (SSAS) Tracking Systems VDR/(S)VDR & Acoustic Beacons

ANTI-POLLUTION

Engine Room Alarm Monitors Fuel Blending System Fuel Consumption Measurement Fuel / Flow Measurement **Fuel Viscosity Control** Oil Discharge Monitor Oily Water Monitor & Separator Torque Measurement

CONSOLE INTEGRATION

DYNAMIC POSITIONING SYSTEMS & SERVICE

> We Keep **Professional Mariners on** the Move

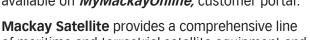


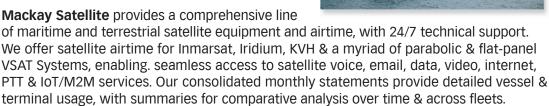
When it comes to one-stop communications and navigation capabilities, the name to know is Mackay Marine. Mackay can manage your vessel's entire electronics investment through equipment sales, installation, service, regulatory inspections, comprehensive maintenance agreements, airtime and network applications. Mackay's goal is to understand your needs from start to finish.

For 135+ years, Mackay has served the marine and offshore industries. We are committed to delivering timely, cost-effective. quality solutions for your electronic equipment needs and to keep your marine electronics performing optimally. Mackay is the largest high-seas service company in the Americas with facilities in 32 major ports, and 36 locations in Asia, Middle East, Europe & Africa. Mackay World Service coordinates global service 24/7 to keep your vessels "on the move".

SPECIAL MACKAY PROGRAMS

Mackay World Service (MWS) dispatches marine equipment service worldwide, 24 hours/day. MWS will coordinate the most qualified and cost effective service for repair, maintenance, installations and inspections, through Mackayowned 68 global offices or with our network of 90 affiliated service agents. Mackay offers global Lump Sum Annuals & multiple levels of Service Maintenance Contracts to keep your bridge electronics operating at optimum performance. Comprehensive Service Reports & History, Fleet Equipment Portfolio, consolidated billing, etc., available on MyMackayOnline, customer portal.





New Build & Retrofit Projects: Mackay is a proven leader in the field of "turn-key" integrated electronics and communications systems. Ranging from a simple GMDSS station to a complete system with an integrated navigation bridge console, satellite & internal comms, security components and below-deck systems. Mackay's Project Integration Group works with new-build, retrofit, and military/government integration projects to devise cost effective systems to meet their unique requirements and schedule.

Governmental and Regulatory Compliance: Working with over a hundred flag-states, we provide installation, licensing & publications, activation & commissioning, regulatory testing & certification, re-flagging & upgrade services for all navigation & communications equipment requirements. **MyMackayOnline** portal is the conduit to collect & track equipment service; providing insight to cusotmers for scheduling required periodic inspections and needed upgrades.



Mackay's Quality • Convenience • Value

Saves You Time & Money

MACKAY'S COMMITMENT TO YOU



- Responsiveness: Mackay is a 24/7 worldwide maritime service dispatcher, with live-manned coordinators on 4 continents; providing rapid service schedule confirmation and prompt response to parts and equipment inquiries. Authority is delegated to the field level for quick decision-making and efficient processing to satisfy the customer's needs.
- Prepared Service and Sales Personnel: Mackay maintains a state-of-the-art database on all *Customers, Vessels and Equipment* we have sold or serviced. This enables our salespeople to offer appropriate recommendations and enhances repair diagnostics by Mackay's Service Technicians, prior to dispatch.
- Quality Equipment Serving Multiple Sectors: Mackay represents both leading and specialized manufacturers of electronic equipment for commercial marine, offshore, fishing, workboat, and passenger vessels; paired with a wide range of terrestrial communication applications.
- Knowledgeable Technicians: Mackay staffs over 200 licensed Marine Service Technicians (MST's), averaging fourteen years of field experience. Our MST's regularly attend factory training and are supported by Service Managers, who average over 20 years of experience.
- Strategic Locations: Mackay has field offices in 68 strategic global ports (and growing) to expedite service and delivery and minimize travel expense. We will coordinate your domestic and international repairs, 24 hours a day, 365 days a year, through Mackay World Service.
- Stock-On-Hand: Mackay maintains \$16M of spare parts and finished goods inventory for service and immediate delivery. 15 dedicated OTC Global staff. Participates in ShipServ marketplace.
- Accurate, Clear Reporting: Mackay service orders provide customers with useful feedback, in an easy-to-read format, which can be consolidated into periodic, analytical reports. Service reports & history, vessel equipment portfolio & invoicing are all accessible on MyMackayOnline customer portal.



Put Mackay's efficiencies to work to save you money!

Authorized Sales

and Service For: Anschütz **RFAM** Blue Sky Network (ASE) Boning Bosch Cassens & Plath Cobham SATCOM **SAILOR** Sea Tel Danelec Marine Deckma Hamburg Dukane **Eaton Gitiesse** FIKF FLIR / Raymarine Furuno Hanwha Highlander **Hoglund Marine Solutions** Icom Intellian Interschalt / MacGregor Iridium Jotron IRC Kahlenberg Kelvin Hughes/Hensoldt Kobelt Koden KVH Lars Thrane Lilley & Gillie Lopolight McMurdo (Seas of Solutions) Navitron Netwave (Seas of Solutions) Olex Pole Star Port-IT Raytheon (Anschütz) RM Young

Rutter (Radar) **RWO** Saab Samsung SEA.AI Simrad Fisheries (Kongsberg) Simrad (Navico) Skipper (Jotron) Snakeways Sperry Marine (U.K. & APAC) Starlink Thales TIMEZERO / Nobeltec TOKYO KEIKI **TRANSAS VAF Instruments**

YDK (Yokogawa) Zenitel Service available for all brands of equipment

Veinland Viasat / Inmarsat

wideye Addvalue

Mackay World Service coordinates customer service worldwide:



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