

WESMAR™

WESTERN MARINE ELECTRONICS

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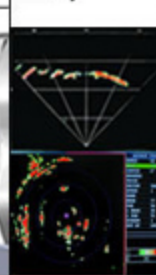
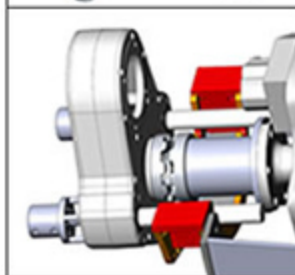


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Sonar Systems Division

Mechanical Systems Division

Defense Systems Division





WESMAR EV850 Expedition Vessel Navigation and Security Sonar

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WESMAR

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About WESMAR

- Founded in 1965 by President Bruce H. Blakey
- An innovative American product design, development and manufacturing company
- Product firsts: solid-state sonar, counter-rotating bow thruster, electronic gyro roll-fin stabilizers
- Our products are built in WA state, and exported throughout the world

Threats – Decreasing Security



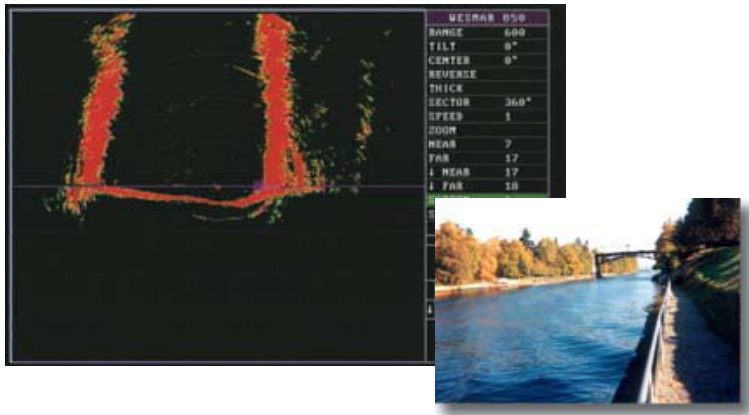
- December 2008
 - M/V Ocean Nautica chased by pirates in the Gulf of Aden
- Wall Street Journal, November 2008
 - “...piracy has experienced a meteoric rise, with the number of attacks increasing by double-digits per year.”
 - “Pirates off the Somalia coast have attacked 26 vessels and taken hostage 537 crew members in the three months ended Sept. 30 (2008)”
 - “Attacks on Shipping in Mideast raise Insurance Costs.”
- Counterterrorism – A Reference Handbook (Author: Graeme Steven)
 - “Anchored or berthed ships, especially when in port are vulnerable to underwater attack...”

Threats – Hazards to Navigation



- July 2008
 - Nine hour stranding of the *M/V Spirit of Glacier Bay* near Glacier Bay National Park in Alaska
- November 2007
 - Sinking of the *M/S Explorer* off Antarctica after ice created a hole the size of a fist in the hull

The WESMAR EV850 Expedition Vessel Navigation and Security Sonar



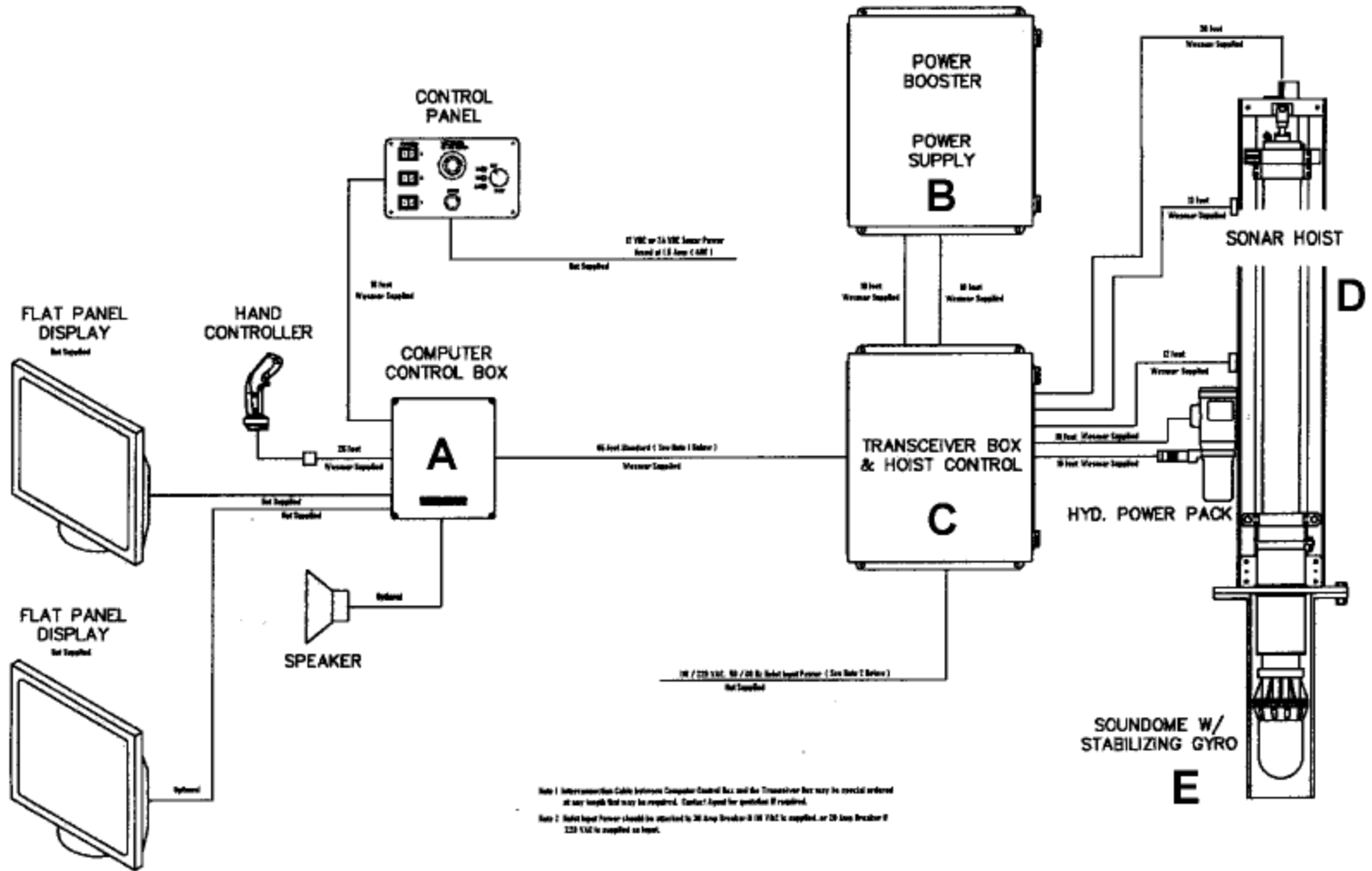
- Safety while cruising in unknown or hazardous waters
- Scanning of harbor entrances
- Constant sonar monitoring of depth under vessel to prevent groundings
- 360 degree detection of underwater intruders

EV850 Features



- The EV850 protects your vessel investment with WESMAR sonar technology that has been proven in commercial fisheries and military deployments
 - Active electronic gyro controlled stabilization, capable of correcting 34 degrees of movement per second
 - 110 kHz frequency for high resolution, effective for both navigation and underwater intruder detection
 - New large array transducers provide greater transmit power and receiving sensitivity
 - Joystick operation for simplified operation
 - Robust hydraulic hoist system

EV850 Architecture



Lindblad Expeditions

“All cruise ships should have the WESMAR sonar for navigation...It’s like an underwater radar.”

[Capt Leif Skog, M/S National Geographic Explorer]



Contact Us



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