

Contributed by Darryl Baker

MARINE TECHNOLOGY & RESEARCH



Pacific Escort IX-517

MULTI-PURPOSE RESEARCH VESSEL

Available for your Projects Now

The PACIFIC ESCORT, a U.S. Navy owned 210 ft research vessel operated by Mare Island Naval Shipyard, is available to support a wide variety of general research, scientific, test support and environmental operations.

CAPABILITIES

PACIFIC ESCORT can be outfitted for a wide variety of projects including:

- Submarine Safety Escort
- Sonar Systems Certification (SATS)
- Acoustic Research
- Oceanographic Research
- Towed System Support
- Submersible Vehicle Support
- Environmental Research/Monitoring
- Ship Instrumentation/Equipment Test Platform
- Data Collection Devices, Launch & Retrieval
- Law Enforcement Surveillance and Patrol
- Fisheries Research
- Oil Spill Command Center

Available on Short Notice



PROJECT SUPPORT ASSETS

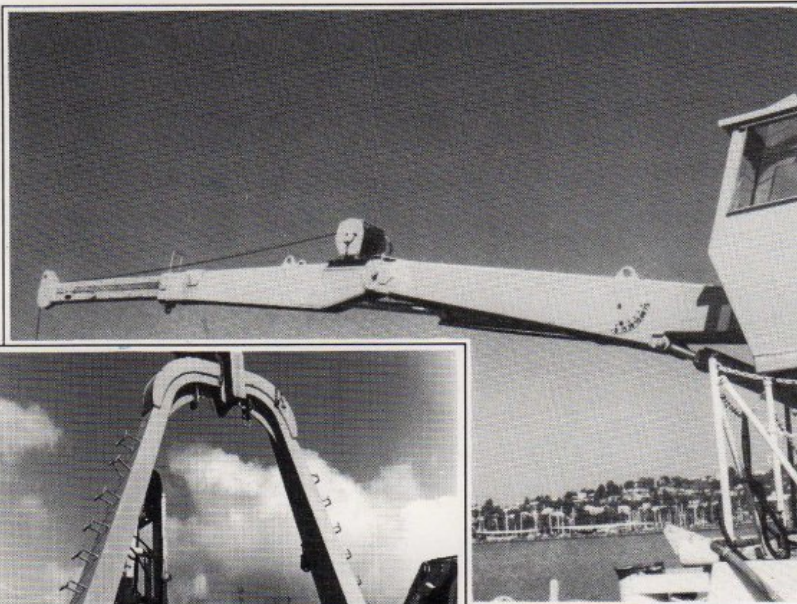
Assets on PACIFIC ESCORT include over 1,300 square feet of laboratory space in three separate labs, one of which is capable of complete isolation and through-hull tube launch of equip-

ment. An A-frame is located on the stern for towing of gear. The vessel has two oceanographic winches: a 30,000 ft hydro winch, with davit, on the 01 level starboard, and a 30,000 ft (coring), 20,000 ft (Co-ax), hydro winch on the stern. Deck space is available on the 01 level for portable vans. A telescoping crane is available on the 01 level aft and an articulating crane is located on the fantail.

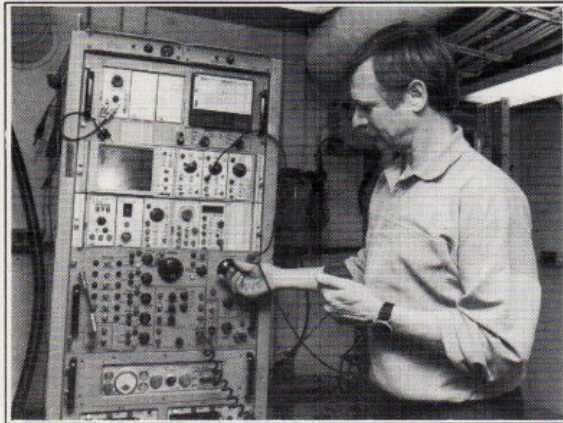
The ship is fully equipped per COM-SUBPAC and COMSUBLANT instruction with active/passive sonar, underwater telephones, Signal Underwater Sound (SUS) devices, and Sonar Acoustical Target Source (SATS) equipment.

NAVIGATION

Navigation capabilities include Global Positioning System (GPS), LORAN, and NAVSAT as well as conventional visual bearing plot and celestial navigation. The bridge radars are modern digital color presentations including Automatic Radar Plotting Aid (ARPA), for safe and efficient target tracking, on the main radar. A digital color video plotter provides a situational display from any navigational input and is very useful in submarine as well as scientific work.



**Well equipped
for varied
missions.**



Reasonable daily charges.

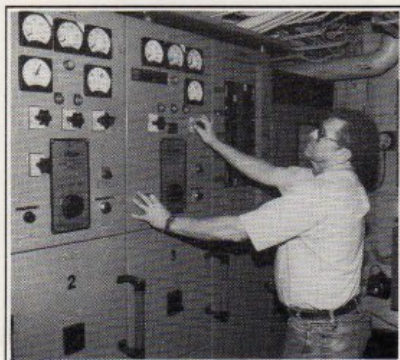
"Can-do" ship's crew

The ship has a state of the art public address/talk-back system and a color remote video camera system with monitors on the bridge, in the mess room, and engine room.

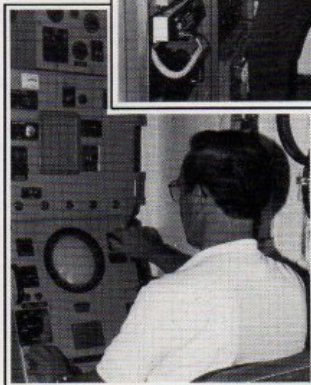
A 360° bow thruster assists accurate station keeping ability. The ship's automatic pilot is a modern ADG (Adaptive Digital Gyropilot) with hands-off tracking to waypoints and pre-determined maneuvering capability.

ECONOMY

PACIFIC ESCORT has a very efficient hull requiring only modest power and fuel consumption to achieve cruising speed. Additionally, the ADG autopilot is specifically designed for optimal fuel consumption. Combined with small crew size, this



allows economical operation and enables customers to realize cost savings compared to other vessels of this size and capability. Actual daily rates are depen-



dent on customer's operational requirements and duration of voyage.

MAINTENANCE

The ship is owned by the U.S. Navy, civilian crewed, and is in excellent condition. It is built to U.S. Coast Guard and American Bureau of Shipping (ABS) standards and is fully classed **+AI E, +AMS** (highest rating) by ABS under continuous survey of hull, machinery and equipment.

CREW

PACIFIC ESCORT's professional, courteous crew is committed to operating the vessel to the highest standards of competency and safety. Service to the customer is reflected in the crew's "can do" attitude and their commitment to the customer's mission. All crew members have dual skills which include: welder, electronic technician, electrician, machin-

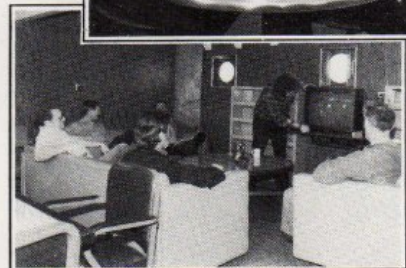
ist, rigger. They will perform services to the customer's equipment upon request at no extra charge.

ACCOMMODATIONS

PACIFIC ESCORT has single or double staterooms for up to 30 project personnel. The ship is fully air-conditioned throughout and the modern galley provides excellent dining. The roomy lounge/library is equipped with a big screen TV and VCR and offers a pleasant retreat for all personnel. The mess rooms provide alternate video viewing and relaxation.

AVAILABILITY

PACIFIC ESCORT is available to support a wide variety of projects when not serving submarine sea trials. Availability of PACIFIC ESCORT to non-sea trial users is often possible on a very short notice basis, a significant convenience for projects having short-fused requirements for a support vessel. Primary areas of operation are U.S. West Coast and Pacific Ocean waters, although operations in other areas may be arranged.



For Further Information, Please Contact

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Dimensions: L.O.A. 208'10"
 Beam 39'
 Full Load Draft 15' (19'6" w/sonar dome)
 Full Load Displacement 1401 L.T.

Propulsion: Diesel-Electric, 1125 SHP
 Single Screw, 5 blade propeller
 175 HP Bow Thruster, 360° rotation

Electricity: 2 - 300 KW 450V 3 Phase AC Ship's Service Generators
 Voltage available: 450V 3 Phase AC
 208V 1 Phase AC
 208V 3 Phase AC
 115V 1 Phase AC
 400 HZ - 115V 3 Phase AC

Cruising Speed: 11 Knots - 2 Engines
 9 Knots - 1 Engine
 RPM - 100 RPM Slow speed
 150 RPM Half speed
 200 RPM Full speed

Maximum Endurance: 40 day, 10,000 miles

Accommodations: 12 crew
 30 project personnel in single or double staterooms

Laboratories: No. 1 - Midships main deck, 340 ft²
 No. 2 - Starboard main deck, 520 ft²
 No. 3 - Port main deck, 440 ft²
 Clean salt water available in Laboratories 2 and 3

Navigation:

Radar: 1 - Furuno 2010 Digitized X-band radar with ARPA plotting, 72 N.M., 9410 ±30 MHZ
 1 - Furuno FCR - 1411 digitized X-band marine radar, 72 N.M., 9410 ±30 MHZ

GPS: 1 - Furuno GP-1250 multi-scale partition Global Positioning System with plotter. NMEA 0183 output to auxiliary equipment.
 1 - Furuno GP-500 dual channel with 200 PPM ships speed output to radar and autopilot.

Loran: 2 - Furuno LC-90 MKII (2 on bridge and 1 in SONAR space).

SatNav: 1 - Furuno FSN 70 NavSat receiver.

Plotters: 1 - Furuno GD-170 color video plotter.
 1 - Furuno FP-170 Hard copy plotter.
 (All navigation devices interface to both plotters).

Fathometer: 1 - Furuno FCV-552 dual Frequency, 500 W, 6,000 feet
 1 - AN/UQN-1, Recording fathometer, 36,000 feet
 1 - Furuno FE-880, Recording fathometer, 500 fms

Gyrocompass: Sperry MK27 sync. Amplifier with repeater on bridge, bridge wings, sonar, lab #2, and steering engine room.

Communication:

Radio Room: 2 - Furuno FS-5000 SSB H.F. Digital Processing radio-telephones, 1.6-30 MHZ
 2 - Furuno DP-5 telex terminal with video display (for use with FS-5000).
 2 - Furuno PP-500 telex hard copy printers.
 2 - Furuno DSC-5 digital selective calling encoder/decoder.
 2 - An/DVT Cryptographic units for secure communications.
 1 - AN/WSC-3 UHF transceiver.
 2 - URC-9 UHF transceivers.
 1 - AN/URT-23A transmitter.
 2 - R-1051 H.F. Receiver.
 1 - Raytheon, Ray-66 VHF-FM Radiotelephone.
 1 - Raytheon Rayfax 500 weather facsimile receiver.

Bridge: 2 - Furuno FM-2510 VHF Marine Radiotelephone
 1 - ACR Electronics 406 MHZ Category I Satellite EPIRB

Sonar:

1 - AN/SOS-4 Mod3 Active Sonar, 12 KHZ
 1 - AN/WLR-9 Passive Sonar
 2 - AN/WQC-2 Underwater Telephones
 1 - AN/UQC-1 Underwater Telephone
 1 - AN/WQM-6 Sonar Acoustic Target Source (SATS) Console and Transducer. Maximum depth 600 feet.

Deck Machinery:

Hydro Winch: Starboard boat deck, capacity 30,000 feet of 3/16" wire.

Intermediate Winch: Starboard main deck, Interchangeable drums, capacity 20,000 feet of .68" 2-conductor co-axial cable, 30,000 feet of 1/2" coaring wire.

Crane, Alaskan, Articulated & Telescoping: 2,200 pounds at 40 foot radius - Starboard, Frame 76, (Starboard aft).
 2,700 pounds at 27 foot radius - Port, Frame 98 (fantail).

A-Frame: 35,000 pounds static load
 6,000 pounds lifting capacity
 Maximum height - 14'8" Inboard Position-11'0" Outboard Position
 Maximum width - 9'9" at 5' above Heel Pin
 Minimum Width at top of A-Frame - 4'4"
 Maximum clearance aft of stern approximately 4'0"

SATS Launcher: Self-contained, combined signal and hoist cable, 600 feet maximum depth.

Scientific Vans: Space available on 01 level, port and starboard, Main Deck and fantail.

Transducer Well: 1 - Frame 49, port side, fiberglass window in hull. Top can be removed to insert transducers etc., then covered and flooded.

Tube, through hull: 2 ft I.D. accessible from Lab #1 to opening in bottom of ship.
 Available: Benthos Deep Sea Acoustic Release 4,540 kg (10,000 lb) load & release capability. 12,000 meter depth, 10 km slant range, secure FSK.

PACIFIC ESCORT DIVISION

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