

ORCA TX-103
SAFETY SYSTEMS
FOR MILITARY
& COMMERCIAL
APPLICATIONS



Immediate Alerting

You'll know the instant someone is overboard



IN USE ON **EVERY**
U.S. **NAVY** SHIP



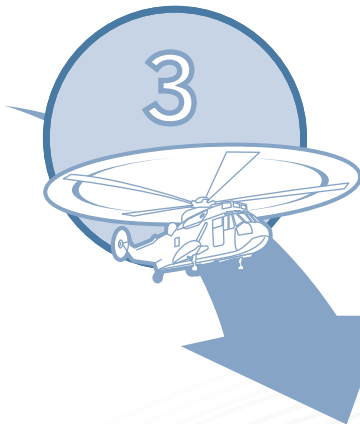
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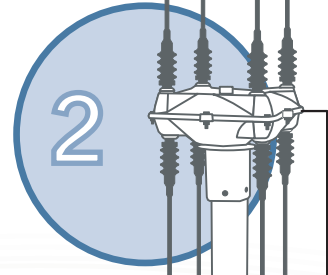


The ORCA® TX-103 Man Overboard Identification (MOBI) and Location System is an innovative system that allows for immediate, rapid recovery of a sailor who has fallen overboard.



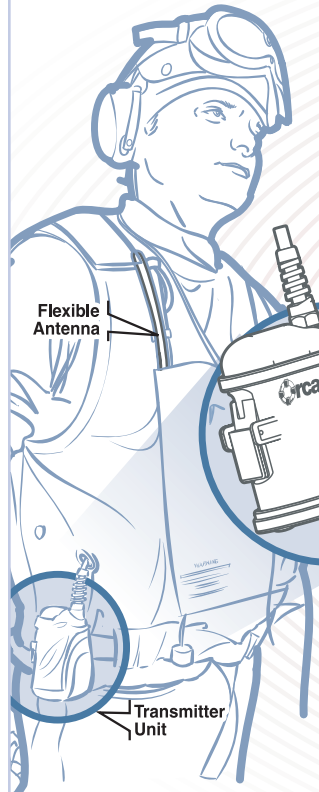
Man Overboard Recovery

After notification of the incident, rescue authorities are able to locate and recover survivors. Transmitters can be tracked up to 60 nautical miles from the air.



Radio Direction Finder Antenna

The antenna locates the transmitter's VHF signal with a normal surface-to-surface range of 1-2 nautical miles. Transmitters can be tracked up to 20 nautical miles. Relative bearing information is displayed on a **Radio Direction Finder Display**.



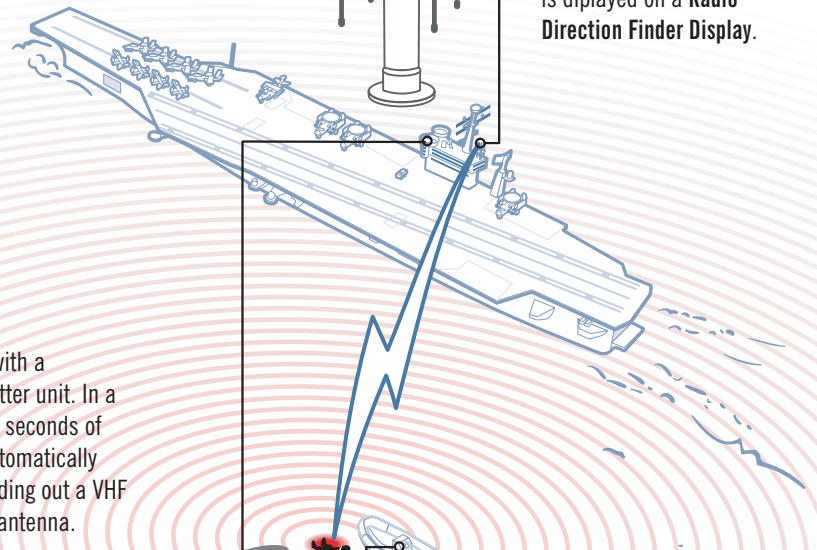
Transmitter

On-deck personnel are equipped with a pager-sized, serialized Transmitter unit. In a overboard emergency, 3-5 seconds of saltwater immersion automatically activates the unit, sending out a VHF signal via the flexible antenna.

Flexible Antenna



Transmitter Unit



Radio Direction Finder

A bridge mounted unit allows immediate and coordinated rescue to be directed from the ship. A portable unit installed on the ship's Rigid Hull Inflatable Boat speeds SAR directly to the survivors. Transmitters can be tracked up to 5 nautical miles.



ORCA® TX-103 Specifications

Transmitter

- Size: 3.24" x 2.2" x 1.36"
- Weight: 5.1 oz.
- Battery: User-replaceable 9-volt alkaline
- Activation: Manual, fresh and salt water activated, and saltwater only activated
- Safety Light: 2.25 candella daylight visible

Receiver

- Size: 6.87" x 5.08" x 1.81"
- Weight: 35 oz.
- Current draw: (typical) 55 mA
- RF sensitivity: 0.25 – 0.60 uVpd
- RF input impedance: 50 ohms

Direction Finder Display

- Accuracy: +/-5 degrees
- Power Source: 12 – 40 VDC

Direction-Finding Antenna

- Type: Phase Interferometer