

ORCA TX-103SE
SAFETY SYSTEMS
FOR SUBMARINE
ESCAPE &
RESCUE



Speed the Rescue



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



RATED TO 425 METERS!

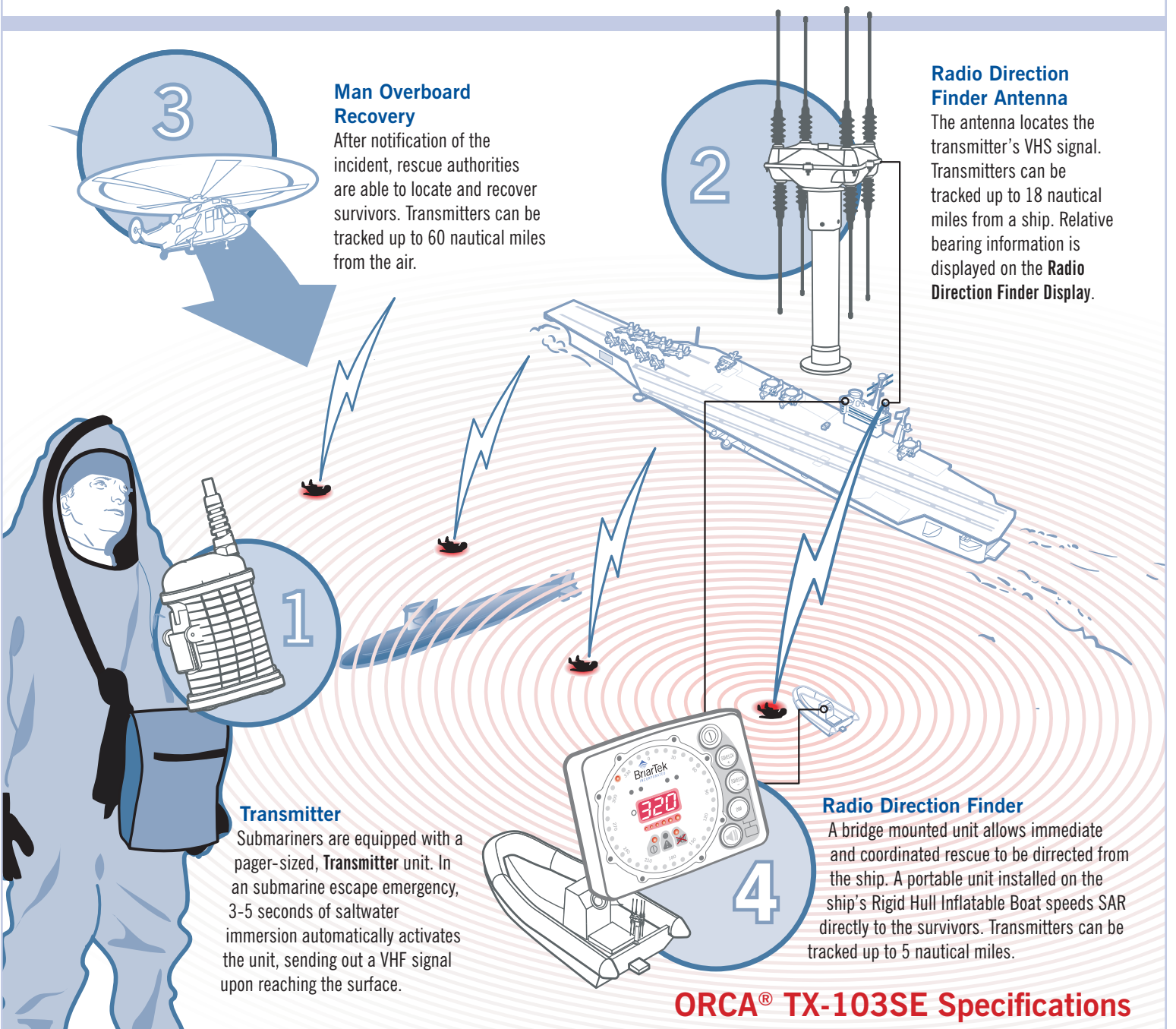

BriarTek
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San Diego, California | Alexandria, Virginia | Indianapolis, Indiana



The ORCA® TX-103SE (Submarine Escape) is an innovative new system that allows for immediate, rapid recovery of personnel who have escaped from a stricken submarine.



3

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.

2

Radio Direction Finder Antenna

The antenna locates the transmitter's VHS signal. Transmitters can be tracked up to 18 nautical miles from a ship. Relative bearing information is displayed on the **Radio Direction Finder Display**.

1

Transmitter

Submariners are equipped with a pager-sized, **Transmitter** unit. In an submarine escape emergency, 3-5 seconds of saltwater immersion automatically activates the unit, sending out a VHF signal upon reaching the surface.

4

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-103SE Specifications

Transmitter

- Size: 3.24" x 2.2" x 1.75"
- Weight: 6.6 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
- Depth Rated: 425 meters

Receiver

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

Direction Finder Display

- Accuracy: +/-5 degrees
- Power Source: 12-36V

Direction-Finding Antenna

- Type: Phase Interferometer