

# TACTICAL SONAR EMILY



HYDRONALIX



ambio  
NEXA



# EMILY E.R.S.

**EMERGENCY INTEGRATED LIFESAVING LANYARD**

## TACTICAL SONAR EMILY

Weight 37 lb

Length 50 in

Self-righting

2.2 KW Motor

Night Navigation Lights

Positive Buoyancy 150 lb

Speed 18 mph or 16 kts

Reversing Bucket (optional)

240 WH Battery (444 WH High Capacity Battery Optional)

Duration 3 - 6 hrs at 2 mph or 1.5 kts in calm water

Waterproof High Power LED Headlight

AutoChart Live with depth, vegetation and bottom hardness mapping

APEX MEGA Side Imaging, MEGA Down Imaging, CHIRP Digital Sonar, DualBeam Plus

CHIRP (Compressed High Intensity Radar Pulse)

Side and Down Imaging Frequencies 455 kHz (420 - 520 kHz), 800 kHz (790 - 850 kHz)

MEGA 1.2 MHz (1.125 - 1.300 MHz)

2D Frequencies 175 and 225 kHz

Sonar maximum depth 1,500 ft

GPS and chart/map to assist day and night navigation

Autonomous control above 3 mph or 3 kts

Upgradeable to Cellular GSM Communications

Antennas built into Cover for low overhang operations (piers and docks)

Sonar control and imagery have a 1,600 ft range from EMILY to phone or tablet

Live Sonar data

ReefMaster Bathymetry Mapping Software

Jet Pump Drive made of Aerospace Composites and Ceramic Bearings

Waterproof Internal Modular Components

Ergonomic Grab Handles built into Cover

High-grade Industrial Marine Fabric Float Cover

Fast Smart Battery Chargers

Frequency hopping 2.4 GHz Transmitter Controller with 3 watt Amplifier

Doodle Labs Radio (1 watt)

Compatible with MPU5 Military Radios

Compatible with ATAK Software

Warning Indicator Light (indicating battery and range) located on Tablet

Export Control - EAR99



HEPTSEM2000



Items have been developed in part under the assistance of multiple U.S. Federal SBIR/STTR contracts listed below:

N6833514G0039 Open BOA

N6833515C0138

N6833513C0281

DOCRA1333R14SE2877

DOCRA1333R11CN0188

N0001410MO458

N0001411MO119

HR001112C0073

NSF-1722355-A

N6833518F0001

Patents Include:

US #882555, Korea #10-1482486, Mexico #339942, Indonesia #W-00201304834, Hong Kong (Taiwan/China) #14108254.8,

Australia #2012239947, European Union (30+ countries) #269436, Greece 3095439



National Science  
Foundation STTR  
Funded Company



**HYDRONALIX**

Hydronalix, Inc.  
1 (520) 203.8351  
[www.hydronalix.com](http://www.hydronalix.com)