

SONAR EMILY

ROBOTIC SONAR



HYDRONALIX

ambio
NEXA

Ambio NEXA - Fabrikkveien 10 - 4033 Stavanger - post@ambio.no

EMILY

E.R.S.

EMERGENCY INTEGRATED LIFESAVING LANYARD

SONAR EMILY

Weight 17 kg
Length 127 cm
Self-righting
2.2 KW Motor
Night Navigation Lights
On-Board Recording
Positive Buoyancy 68 kg
Speed 16 kts
Reversing Bucket (optional)
240 WH Battery (444 WH High Capacity Battery Optional)
Duration 3 - 6 hrs at 1.5 kts in calm water
Waterproof High Power LED Headlight
AutoChart Live with depth, vegetation and bottom hardness mapping
Humminbird Basemap Cartography (built-in)
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 457 m
GPS and chart/map to assist day and night navigation
Autonomous control above 3 kts
Upgradeable to Cellular GSM Communications
Antennas built into Cover for low overhang operations (piers and docks)
Sonar control and imagery have a 488 m range from EMILY to Payload Station
Live Sonar data
SAR HAWK™ Software (included), SAR HAWK™ Training (optional)
Additional 1.3m Flag with Antenna for extended range
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
5.8 GHz WIFI Radio for Sonar system (optional) 10 watt and 20 watt
Compatible with MPU5 Military Radios
Warning Indicator Light (indicating battery and range) located on Payload station



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

Hydranalix, Inc.
1691 W. Duval Commerce Court
Green Valley, AZ 85614
520.203.8351
www.hydranalix.com