

EMILY E.R.S.

EMERGENCY INTEGRATED LIFESAVING LANYARD





BEACH RESCUE EMILY

Weight 26 lb

Height 14 in

Width 14 in

Length 50 in

Positive Buoyancy 150 lb

Orange Flag 4 ft

Self-righting

1.2 KW Motor

Speed 23 + mph or 20 + kts

Custom Labels

Perimeter Grab Rope 8 ft

Waterproof Internal Modular Components

Duration 12 - 14 min full power run time (equal to 70 - 100 rescues at 100 yrds)

Battery Operational Range of 5 + miles at full power, 6 + miles at slower speeds

Three D-Ring Tow Line Attachments

Jet Pump Drive made of Aerospace Composites and Ceramic Bearings

Quick Change 240 WH Battery

Four Ergonomic Grab Handles

High-Grade Industrial Marine Fabric Float Cover

Fast Smart Battery Chargers

Frequency hopping 2.4 GHz Transmitter Controller with 3 watt Amplifier

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

EMILY

HEPEMPK1000

INCLUDES

- Float Cover
- Battery Charger 2-Pack
- Battery Module
- Flag
- Boat Stand
- Lanyard 2-Pack
- Futaba Transmitter
- User Manual



HEPEMBT1000



HEPBACH2002



HEPBATT1000



HEPFLAG1000



HEPBOST1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN1000

For more information go to: www.emilyrobot.com



EMILY KIT

HEPEMKT1000

KIT INCLUDES

- Float Cover
- Battery Charger 2-Pack
- Battery Module
- 2 Additional Steering Arm Boot Seals
- Electrical Anti-Corrosion Solution
- 3 Additional Inlet Grates
- Flags 3-Pack
- Boat Stand
- Tool Kit
- Lanyard 3-Pack
- Futaba Transmitter
- User Manual
- Canvas Airline Carry Bag
- Additional Impeller



HEPEMBT1000



HEPBACH2002



HEPBATT1000



HEPSABS1000



HEPELAC1000



HEPINGR1003



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1003



HEPTMBG2000



HEPUSMN1000



HEPEMBG1000



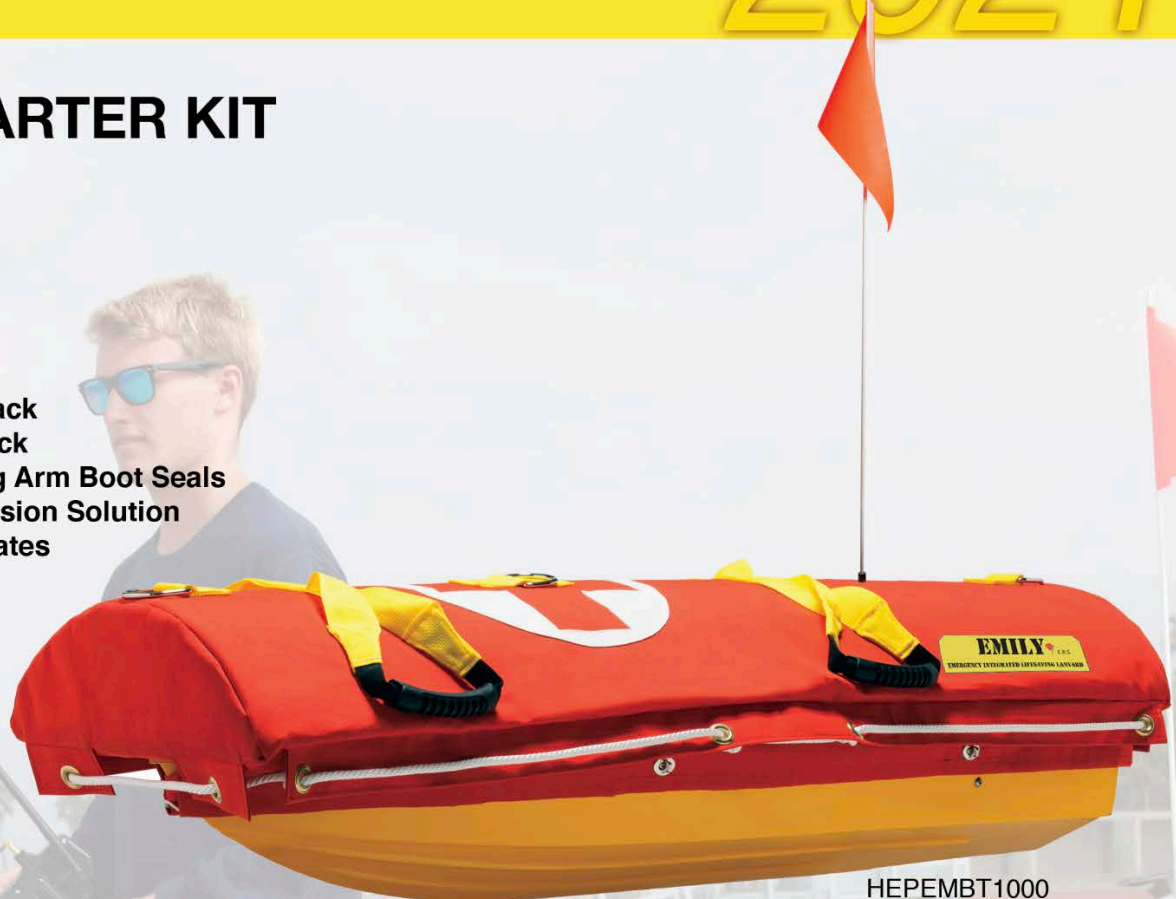
HEPIMPE1000

EMILY STARTER KIT

HEPEMKT2000

KIT INCLUDES

- Float Cover
- Battery Charger 4-Pack
- Battery Module 2-Pack
- 2 Additional Steering Arm Boot Seals
- Electrical Anti-Corrosion Solution
- 3 Additional Inlet Grates
- Additional Impeller
- Flags 3-Pack
- Boat Stand
- Tool Kit
- Lanyard 3-Pack
- Futaba Transmitter
- User Manual
- Storage Cabinet
- Charger Cabinet



HEPEMBT1000



HEPBACH2004



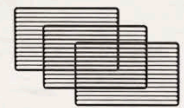
HEPBATT1002



HEPSABS1000



HEPELAC1000



HEPINGR1003



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1003



HEPTMBG2000



HEPUSMN1000



HEPSTCA1000



HEPCHCA1000

For more information go to: www.emilyrobot.com



EMILY 2-PACK & DELUXE STARTER KIT

HEPEMKT3000

KIT INCLUDES

- Float Covers
- Battery Charger 4-Pack
- Battery Module 4-Pack
- 2 Additional Steering Arm Boot Seals
- Electrical Anti-Corrosion Solution
- Canvas Waterproof Spray
- 6 Additional Inlet Grates
- 2 Additional Impellers
- Flags 6-Pack
- 2 Boat Stands
- Tool Kit
- Bilge Bulb
- Lanyard 6-Pack
- Futaba Transmitter 2-Pack
- User Manual
- Storage Cabinet
- Charger Cabinet
- 2 Additional Battery Straps
- Stainless Steel Fastener Kit



HEPEMBT1000



HEPBACH2004

HEPBATT1004

HEPSABS1000

HEPELAC1000

HEPWASP1000

HEPINGR1006

HEPIMPE1002

HEPFLAG1006

HEPBOST1002

HEPTLKT1000

HEPBBLB1000

HEPFLAN1006

HEPTMBG2002

HEPUSMN1000

HEPSTCA1000

HEPCHCA1000

HEBTST1002

HEPFAKT1000

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

SWIFT WATER EMILY

HEPSWPK1000

INCLUDES

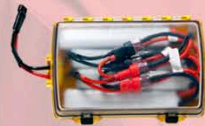
- SWRE Float Cover
- Battery Charger 2-Pack
- Battery Module
- Flag
- Boat Stand
- Lanyard 2-Pack
- Futaba Transmitter
- User Manual
- Life Jacket
- Helmet
- Headlight



HEPSWBT1000



HEPBACH2002



HEPBATT1000



HEPFLAG1000



HEPBOST1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN2000



HEPLJKT1000



HEPHLMT1000



HEPHDLT1000

For more information go to: www.emilyrobot.com

SWIFT WATER EMILY KIT

HEPSWKT1000

KIT INCLUDES

- Swift Water Cover
- Battery Charger 2-Pack
- Battery Module 2-Pack
- 2 Additional Steering Arm Boot Seals
- Electric Anti-corrosion Solution
- 3 Additional Inlet Grates
- Additional Impeller
- Flags 3-Pack
- Boat Stand
- Tool Kit
- Lanyard 2-Pack
- Futaba Transmitter
- User Manual
- Life Jacket
- Helmet
- Headlight
- 2 VHF Radios



HEPSWBT1000



HEPBACH2002



HEPBATT1002



HEPSABS1000



HEPELAC1000



HEPINGR1003



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN2000



HEPLJKT1000



HEPHLMT1000



HEPHDLT1000



HEPVHFR1002

SWIFT WATER EMILY KIT

SWIFT WATER EMILY

Weight 31 lb

Height 14 in

Width 14 in

Length 50 in

Self-righting

2.4 KW Motor

Custom Labels

Orange Flag 4 ft

Speed 25 mph or 21 + kts

Positive Buoyancy 150 lb

Jet Pump Drive made of Aerospace Composites and Ceramic Bearings

Battery Operational Range of 3.5 + miles at full power, 6 + miles at slower speeds

Duration 5 - 6 min full power (40 - 70 rescues at 100 yds at full power)

Waterproof two-way VHF Marine Band Radios with Remote Microphone, distance is line of sight

Frequency hopping 2.4 GHz Transmitter Controller with 3 watt Amplifier

River Rescue Life Jacket Coast Guard approved

Waterproof high power LED Headlight

High-grade, Industrial Marine Fabric Float Cover

Waterproof Internal Modular Components

Quick Change 240 WH Battery

Fast Smart Battery Chargers

Three D-ring Tow Line Attachments

Four Ergonomic Grab Handles

Optional Reversing Bucket

Night Navigation LED Lights

Perimeter Grab Rope 8 ft

River Rescue Helmet

For more information go to: www.emilyrobot.com

HYDRONALIX

SONAR EMILY KIT

Transducer is permanently mounted in boat hull

HEPSNKT1000

KIT INCLUDES

- Float Cover
- Sonar Payload Station
- Battery Charger 2-Pack
- Battery Module 2-Pack
- 2 Additional Steering Arm Boot Seals
- Electrical Anti-Corrosion Solution
- Additional Inlet Grate
- Additional Impeller
- Boat Stand
- Tool Kit
- Lanyard 2-Pack
- Fly Sky Transmitter
- User Manual
- Canvas Airline Carry Bag
- Antenna Flags 2-Pack
- Reversing Bucket
- Digital GPS



HEPSNBT1000



HEPBACH2002



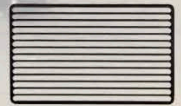
HEPBATT1002



HEPSABS1000



HEPELAC1000



HEPINGR1000



HEPIMPE1000



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG1000



HEPUSMN3000



HEPEMBG1000



HEPAFLG1002

PAYLOAD STATION

& SAR HAWK SOFTWARE
(Included in SONAR EMILY Kit)

HIGH RESOLUTION SONAR

Provides high resolution bottom imagery for locating drowning victims, submerged vehicles and sunken boats.

SIDE SCAN SONAR

MAX MODE:

Maximizes sonar resolution through thermoclines and other water column interference.

CLEAR MODE:

Allows for adjusting the bottom TVG without amplifying water column interference.

3 COLOR PALETTES:

Palettes provide even more flexibility on the water to deal with overcast or full-sun conditions.

Compatible with multiple Mapping Systems

CHIRP Digital Sonar, DualBeam PlusDisplay Size - Diagonal 30.48 cm

AutoChart Live with depth, vegetation and bottom hardness mapping

Displays Multi-Sonar Imaging Screens and GPS position

MEGA Side Imaging, MEGA Down Imaging,

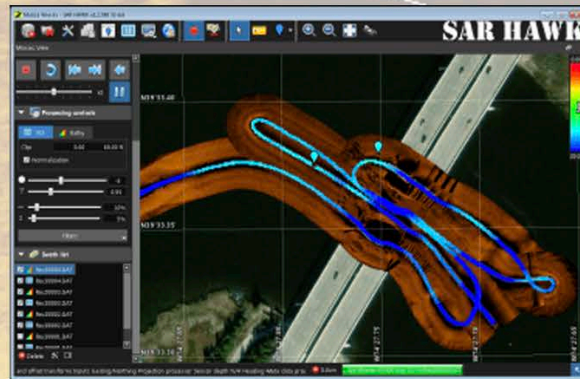
Humminbird Basemap Cartography (built-in)

Waterproof Payload Station, 4 watt Radio, AC or Battery

Battery and Range Indicator Light

Smart Device Compatible (phone or iPad) via Bluetooth

SAR HAWK® is professional software designed with the Search and Rescue professional in mind. It is automated and easy to use, yet provides the ability to review and process Humminbird® data at full resolution on a high-res monitor so you don't miss a thing.



HEPPLST1000



SPEEDoo KIT

WATER SAMPLING

HEPSDKT1000

KIT INCLUDES

- Float Cover**
- Battery Charger 2-Pack**
- Battery Module**
- 2 Additional Steering Arm Boot Seals**
- Electrical Anti-Corrosion Solution**
- 3 Additional Inlet Grates**
- Additional Impeller**
- Flags 3-Pack**
- Boat Stand**
- Tool Kit**
- Lanyard 3-Pack**
- Futaba Transmitter**
- User Manual**
- Canvas Airline Carry Bag**
- 30 Water Collection Bags of various sizes**
- Spare Collection Tube**



HEPSDBT1000



HEPBACH2002



HEPBATT1000



HEPSABS1000



HEPELAC1000



HEPINGR1003



HEPIPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1003



HEPTMBG2000



HEPUSMN4000



HEPEMBG1000



HEPSWCB1000



HEPSDCT1000

MAN OVERBOARD EMILY (MOBE) KIT

HEPMBKT1000

KIT INCLUDES

- MOBE Cover
- High Capacity Battery & Charger Kit*
- 2 Additional Steering Arm Boot Seals
- Additional Inlet Grate
- Additional Impeller
- Flags 3-Pack
- Boat Stand
- Lanyard 2-Pack
- Futaba Transmitter
- User Manual
- Headlight
- 2000 Foot Reel
- Reflective Strips
- Navigation Lights (Port Red Light, Starboard Green Light)



HEPMBBT1000

*Battery and Charger Kit NOT Legal for Commercial Airline Travel



For more information go to: www.emilyrobot.com



POLICE EMILY

HEPPOKT1000

KIT INCLUDES

- Police EMILY Cover
- Battery Charger 2-Pack
- Battery Module
- 2 Additional Steering Boot Seals
- Electric Anti-corrosion Solution
- Additional Inlet Grate
- Additional Impeller
- Flags 3-Pack
- Boat Stand
- Tool Kit
- Lanyard 2-Pack
- Futaba Transmitter
- User Manual
- Headlight
- Programmable Navigation Lights
- 2 VHF Radios with 600 Watt Speaker



HEPPOBT1000



HEPBACH2002



HEPBATT1000



HEPSABS1000



HEPELAC1000



HEPINGR1000



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN6000



HEPHDLT1000



HEPNAVL1000



HEPVHFR1002



HEPSPKR1000

MOBILE ROBOTIC COMMAND VEHICLE

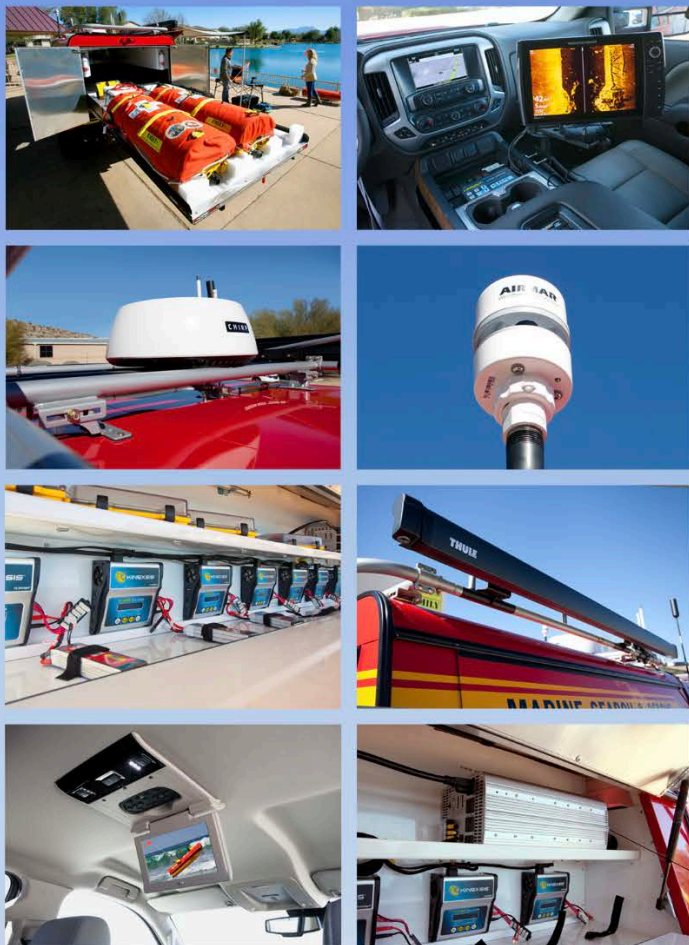
2021

MRCV

HEPMRCV1000

Perform Rescue and Recovery Operations
from inside the Command Vehicle

- Custom Long-bed Shell & Cargo Glide
- Carries 3 EMILY Rescue Boats
- Beach Rescue EMILY
- Swift Water Rescue EMILY
- and a Sonar EMILY
- 2 EMILY Payload Stations
- Humminbird® Sonar Display
- Humminbird® Marine Radar
- Cell Phone Signal Booster
- AIRMAR® PB200 Weather Station
- 8 battery charging stations
- Hideaway Weather Awning
- Rear Seat DVD Player
- 5000 Watt DC to AC Inverter
- Roof Mounted Light Bar
- ROV Optional – UAV Optional
- 32" TV monitor
- Defibrillator



For more information go to: www.emilyrobot.com





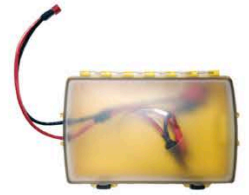
Battery Module
*Commercial Airline Compatible
HEPBATT1000



Battery Module 2-Pack
*Commercial Airline Compatible
HEPBATT1002



High Capacity Battery Module & Charger Kit
*NOT Legal for Commercial Airline Travel
HEPBCKT3000



Battery Module Case
HEPBTC1000



Battery Capacity Checker
HEPBTC1000



Battery Charger 2-Pack
HEPBACH2002



Battery Charger 4-Pack
HEPBACH2004



Battery Strap Restraining Mounts
HEPBMT1002



Battery Straps
HEPBST1002



Bilge Bulb
HEPBBL1000



Boat Stand
HEPBOST1000



Canvas Airline Carry Bag
HEPEMBG1000



Carbon Fiber Drive Shaft
HEPCFDS1000



Ceramic Drive Bearings (Big) Front
HEPCDRB1000



Ceramic Drive Bearings (Small) Rear
HEPCDRB1100



Cooling Hose Nozzles
HEPCHNZ1002

PARTS & ACCESSORIES



E Float Lanyards 3-Pack
HEPFLAN1003



Electrical Anti-Corrosion Solution
HEPELAC1000



Electric Motor w/Housing
HEPELMH1000



Exit Nozzle
HEPEXNZ1000



Flag 3-Pack
HEPFLAG1003



Futaba Transmitter & Carry Case
HEPTMBG2000



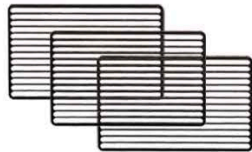
Hatch Cover 2-Pack
HEPHTCV1002



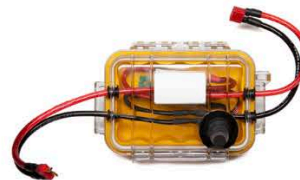
Headlight
HEPHDLT1000



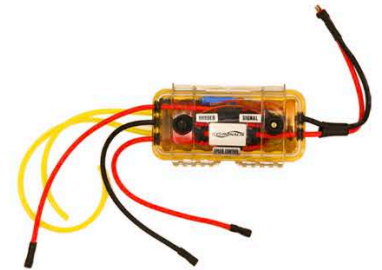
Impeller
HEPIMPE1000



Inlet Grate 3-Pack
HEPINGR1003



Magnetic Power Switch Box
HEPMPSB1000



Motor Control Module
HEPMTCM1000



Motor Drive Shaft Coupler
HEPMDSC1000



Motor Isolation Mounts 4-Pack
HEPMIMT1004



Rear Transom Cleat 2-Pack
HEPRTCT1002



Rescue Reel 800 ft
HEPREEL0800

For more information go to: www.emilyrobot.com





Rescue Reel 800 ft
HEPREEL0800



Rescue Reel 2000 ft
HEPREEL2000



Signal Wire
HEPSIGW1000



Spare Parts
HEPSPKT1000



Stainless Steel Fastener Kit
HEPFAKT1000



Steering Arm Assembly
HEPSTAA1000



Steering Arm Boot Seals
HEPSABS1000



Steering Nozzle
HEPSTNZ1000



Steering Servo
HEPSTSV1000



Steering Servo Mount
HEPSTMT1000



Tool Kit
HEPTLKT1000



Transom Cable
HEPTRCB1000



VHF Radios
HEPVHFR1002

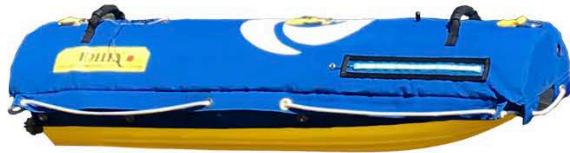


Waterproof Spray
HEPWASP1000



Zip Ties
HEPZIPT1000

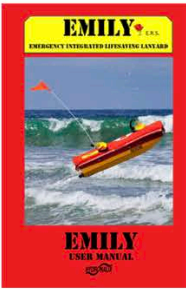
CUSTOMIZABLE COVERS



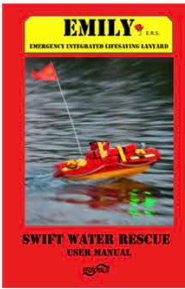
Custom Covers Available
Let our graphics department draft your cover

For more information go to: www.emilyrobot.com

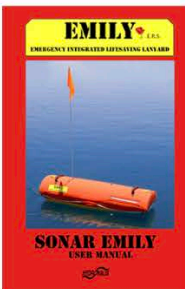




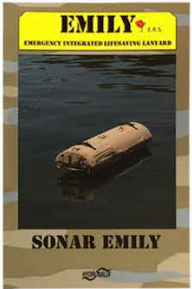
Beach Rescue EMILY User Manual
HEPUSMN1000



Swift Water Rescue EMILY User Manual
HEPUSMN2000



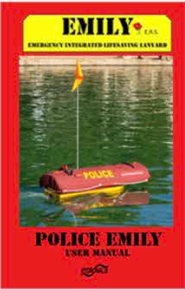
SONAR EMILY User Manual
HEPUSMN3000



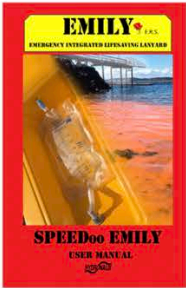
CAMO SONAR EMILY User Manual
HEPUSMN3100



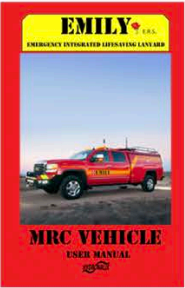
MOBE User Manual
HEPUSMN5000



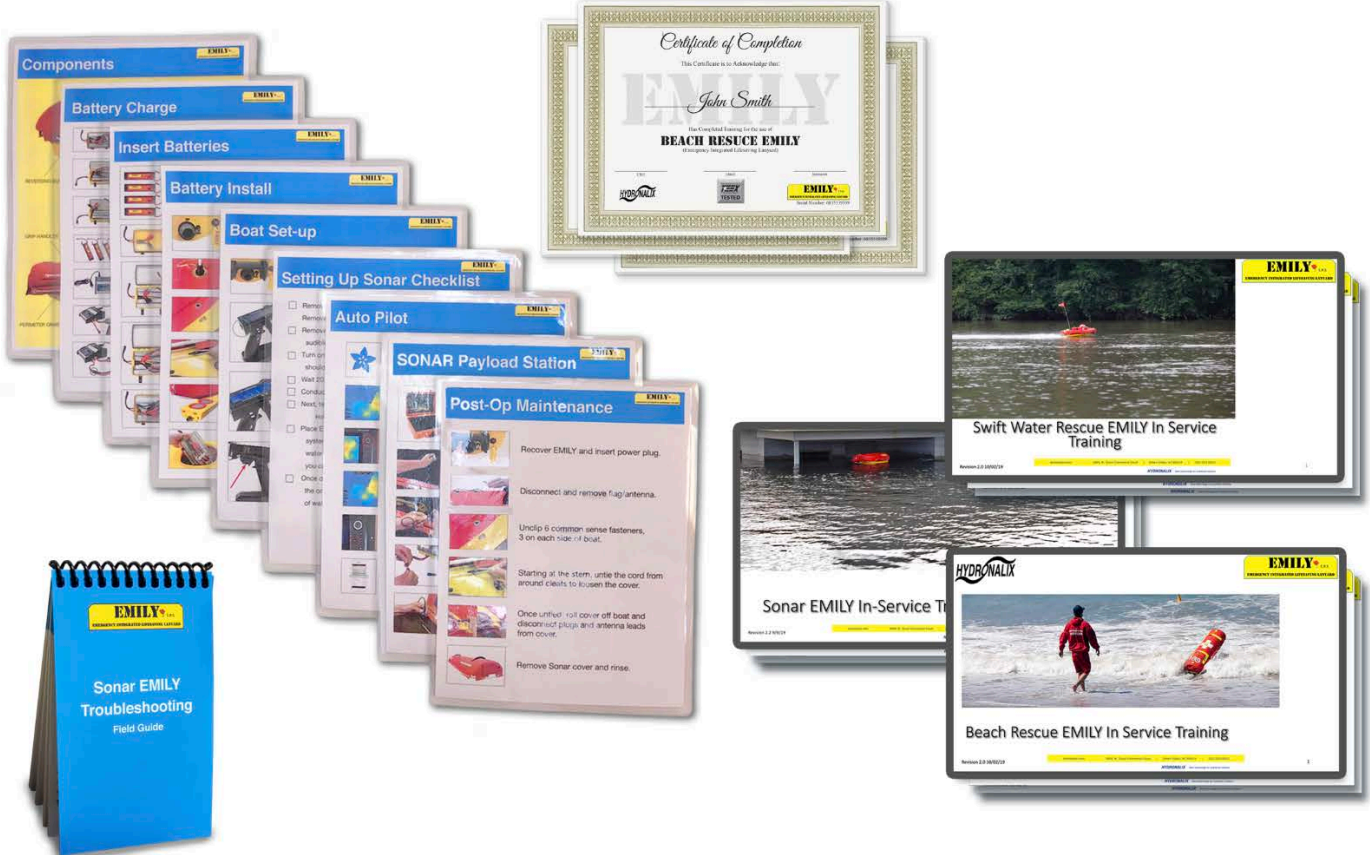
Police User Manual
HEPUSMN6000



SPEEDoo EMILY User Manual
HEPUSMN4000



MRC Vehicle User Manual
HEPUSMN7000



9-7-19 Bakers Bay VR - SAR HAWK v1.1.928 32-bit

The screenshot displays the SAR HAWK software interface. At the top, a toolbar contains various icons for file operations, navigation, and playback. Below the toolbar, the main window is titled "Mosaic View" and shows an aerial satellite image of a coastal area with a marina. A blue track is overlaid on the image, with several cyan teardrop-shaped markers. The interface is divided into several panels:

- Live info:** Shows UTC time as 2019/09/07 17:21:00, coordinates as N26°41'6.316" and W77°8'51.861", heading as 203.0°, altitude as 15.4 ft, speed as 1450.0 m/s, and SPD as 2.9 knts.
- Playback controls:** Includes a stop button, a refresh button, left and right arrow buttons, a speed multiplier set to x2, and a play button.
- Processing controls:** Includes a "Clip" control set to 0.50 (30.00 ft), a checked "Normalization" checkbox, and several sliders for image processing (contrast, brightness, etc.) with numerical values like -14, 0.79, 4%, and 5%.
- Swath list:** A list of data files with checkboxes, including R00080.DAT and R00079.DAT.
- Status bar:** Shows the current file path as "...akers Bay/RECORD/R00080.DAT" and a scale of 5.0cm.

SAR HAWK



THREE DAY ADVANCED HUMMINBIRD® SONAR EMILY TRAINING (Inquire for pricing)

The Humminbird® equipped Sonar EMILY poses both advantages and operational procedures specific to this small ASV. Black Laser Learning's advanced training is designed to be a comprehensive sensor and field operations course providing the user with mission-specific skills.

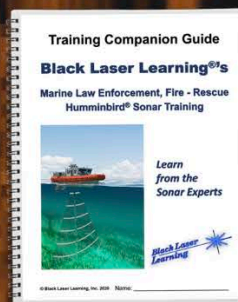
Day 1 of the three-day course will cover details on Humminbird® image analysis, settings, buttonology and data optimization. Data optimization includes mission parameters to improve data quality and search efficiency.

Day 2 is devoted to field practice and data collection.

Day 3 is back in the classroom to focus on advanced data analysis and post-processing utilizing both playback in the system and SAR HAWK® software.

Companion Guides – Each participant receives a full-color booklet with the charts used in the class and ample room for note-taking.

Certificates – A certificate and Black Laser Learning Sonar Operator patch will be sent for each participant who satisfactory completes of the course.



2021



Founded in 2009, Hydronalix has become a recognized leader and international symbol in robotics innovation for beach and flood rescue with our successful Patented Emergency Integrated Lifesaving Lanyard (EMILY) product line. We have 11,000 square feet of engineering, office and manufacturing space in Sahuarita, AZ. Company sales are both domestic and overseas with export distribution throughout Africa, Asia, Europe, the Middle East and the Americas.



National Science
Foundation STTR
Funded Company



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

N6833514G0039
N6833515C0138
N6833513C0281
DOCRA1333R14SE2877
DOCRA1333R11CN0188
N0001410MO458
N0001411MO119
HR001112C0073
NSF-1722355-A
N6833518F0001

Hydronalix, Inc.
www.emilyrobot.com
520.203.8351

