# 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

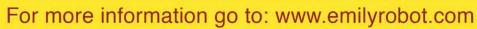
High-Grade Industrial Marine Fabric Float Cover

**Fast Smart Battery Chargers** 

Frequency hopping 2.4 GHz Transmitter Controller with 3 watt Amplifier

# EMILY











# **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** 





HEPBACH2004



HEPBATT1002



HEPSABS1000



HEPELAC1000





HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000







HEPFLAN1003



HEPTMBG2000



HEPUSMN1000



HEPSTCA1000



HEPCHCA1000

For more information go to: www.emilyrobot.com









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

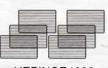












HEPBACH2004

HEPBATT1004

HEPSABS1000

HEPELAC1000

HEPWASP1000

HEPINGR1006













HEPIMPE1002

HEPFLAG1006

HEPBOST1002

HEPTLKT1000

HEPFLAN1006





HEPUSMN1000









HEPTMBG2002

HEPSTCA1000 HEPCHCA1000

HEPFAKT1000 HEBTST1002

**SWRE** 

# **SWIFT WATER EMILY**

HEPSWPK1000

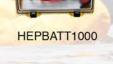
### **INCLUDES**

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





HEPTMBG2000



HEPUSMN2000





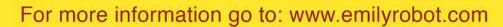




















Headlight 2 VHF Radios

HEPBACH2002



HEPBATT1002



HEPSABS1000



HEPELAC1000



HEPINGR1003



HEPSWBT1000

HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN2000



HEPLJKT1000



T-1000

HEPHDLT1000



HEPVHFR1002

# SWIFT WATER 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

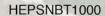
**User Manual** 

Canvas Airline Carry Bag

Antenna Flags 2-Pack

Reversing Bucket
Digital GPS







HEPBACH2002



HEPBATT1002



HEPSABS1000



HEPELAC1000



HEPINGR1000



HEPIMPE1000



HEPBOST1000



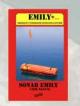
HEPTLKT1000



HEPFLAN1002



HEPTMBG1000



HEPUSMN3000



HEPEMBG1000



HEPAFLG1002



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# 49 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** 

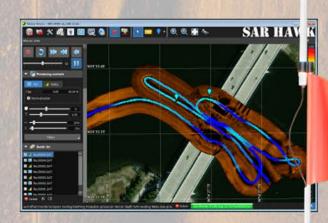
Smart Device Compatible (phone or iPad) via Bluetooth

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.



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# 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** 





HEPBACH2002



HEPBATT1000



HEPSABS1000



HEPELAC1000



HEPINGR1003



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



~ EMILY





HEPTMBG2000



HEPUSMN4000



HEPEMBG1000



HEPSWCB1000



HEPSDCT1000

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MOBE KIT

# 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** 

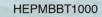
**User Manual** 

Headlight

2000 Foot Reel

**Reflective Strips** 

Navigation Lights (Port Red Light, Starboard Green Light)



EMILY.

<sup>\*</sup>Battery and Charger Kit NOT Legal for Commercial Airline Travel













## MOBILE ROBOTIC COMMAND VEHICLE

















### 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











Carbon Fiber Drive Shaft HEPCFDS1000



Ceramic Drive Bearings (Big) Front HEPCDRB1000



Ceramic Drive Bearings (Small)
Rear HEPCDRB1100



Cooling Hose Nozzles HEPCHNZ1002







E Float Lanyards 3-Pack HEPFLAN1003



E Float Lanyard 6-Pack HEPFLAN1006



Electric Motor HEPELMO1000



Electric Motor w/Housing HEPELMH1000



Exit Nozzle
HEPEXNZ1000



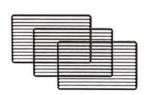
Fly Sky Transmitter & Carry Case
HEPTMBG1000



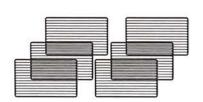
Futaba Transmitter & Carry Case
HEPTMBG2000



Impeller HEPIMPE1000



Inlet Grate 3-Pack HEPINGR1003



Inlet Grate 6-Pack HEPINGR1006



Magnetic Power Switch Box HEPMPSB1000



Motor Control Module HEPMTCM1000

# **DRIVE COMPONENTS**



Motor Drive Shaft Coupler HEPMDSC1000



Motor Isolation Mounts 4-Pack HEPMIMT1004



**Rear Transom Cleat 2-Pack** HEPRTCT1002



Signal Wire HEPSIGW1000



Stainless Steel Fastener Kit HEPFAKT1000



HEPSTAA1000



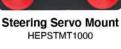
Steering Arm Boot Seals HEPSABS1000



Steering Nozzle HEPSTNZ1000















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 HEPBTCS1000



Battery Capacity Checker HEPBTCC1000



Battery Charger 2-Pack HEPBACH2002



Battery Charger 4-Pack HEPBACH2004



Battery Strap Restraining Mounts HEPBTMT1002



Battery Straps
HEPBTST1002



Bilge Bulb HEPBBLB1000



Boat Stand HEPBOST1000



Canvas Airline Carry Bag HEPEMBG1000



Charger Cabinet HEPCHCA1000



Storage Cabinet HEPSTCA1000



Electrical Anti-Corrosion Solution HEPELAC1000



Float Cover HEPEMCV1000









HEPHTCV1002



Headlight HEPHDLT1000



Rescue Reel 800 ft HEPREEL0800



Rescue Reel 2000 ft HEPREEL2000



Spare Parts HEPSPKT1000



Tool Kit HEPTLKT1000



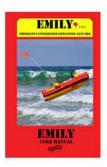
VHF Radios HEPVHFR1002







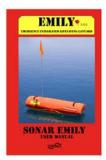




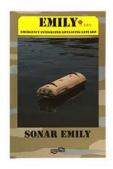
Beach Rescue EMILY User Manual HEPUSMN1000



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

# TRAINING MATERIALS

# MATE

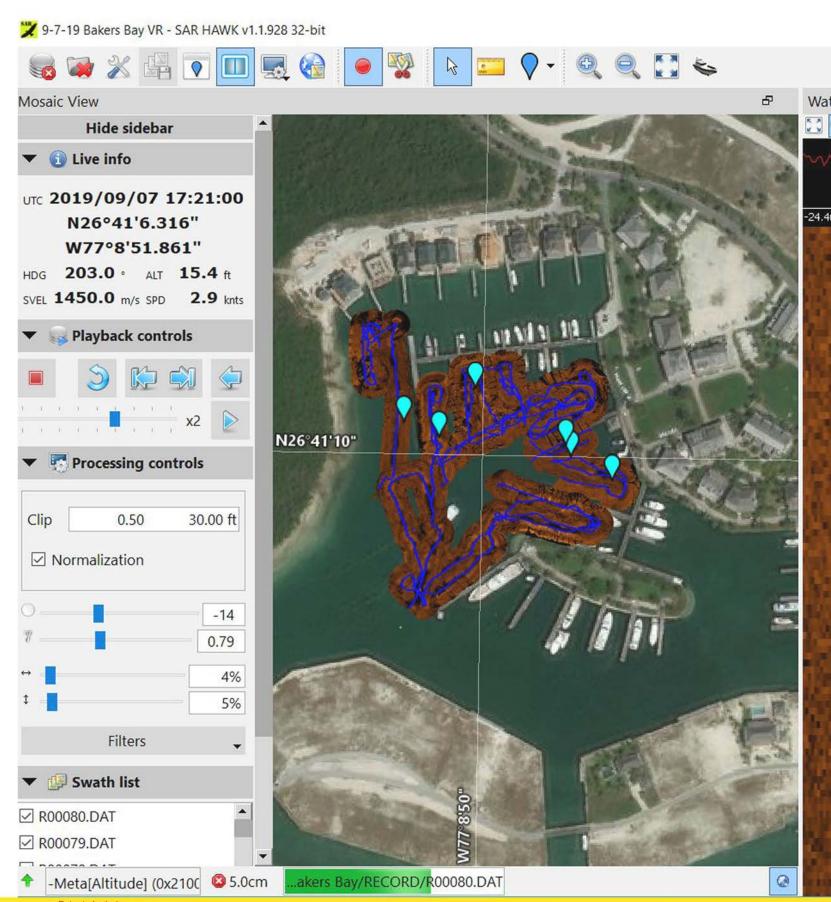




For more information go to: www.emilyrobot.com



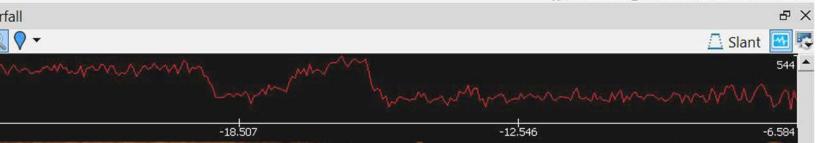




Patents Include:
US #882555, Korea #10-1482486, Mexico #339942, Indonesia #W-00201304834, Hong Kong (Taiwan/China) #14108254.8, Australia #2012239947, European Union (30+ countries) #269436, Greece 3095439



# SAR HAWK



### THREE DAY ADVANCED HUMMINBIRD® SONAR EMILY TRAINING

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.









# 2020



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.



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

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Hydronalix, Inc. www.emilyrobot.com 520.203.8351

