

# EMILY E.R.S.

**EMERGENCY INTEGRATED LIFESAVING LANYARD**



**HYDRONALIX**

**2023**  
PARTS CATALOG



## **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**

**Electric Motor with Cooling Jacket**

**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



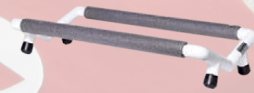
HEPBACH2002



HEPBATT1000



HEPFLAG1000



HEPBOST1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN1000

For more information go to: [www.hydranalix.com](http://www.hydranalix.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



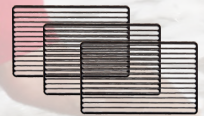
HEPBATT1000



HEPSABS1000



HEPELAC1000



HEPINGR1003



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1003



HEPTMBG2000



HEPUSMN1000



HEPEMBG1000



HEPIMPE1000

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 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



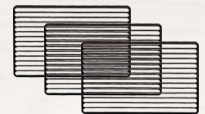
HEPBATT1002



HEPSABS1000



HEPELAC1000



HEPINGR1003



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1003



HEPTMBG2000



HEPUSMN1000



HEPSTCA1000



HEPCHCA1000

For more information go to: [www.hydranalix.com](http://www.hydranalix.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



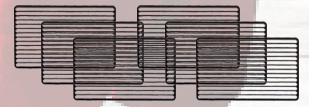
HEPBATT1004



HEPSABS1000



HEPELAC1000



HEPINGR1006



HEPIMPE1002



HEPFLAG1006



HEPBOST1002



HEPTLKT1000



HEPFLAN1006



HEPTMBG2002



HEPUSMN1000



HEPSTCA1000



HEPCHCA1000

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

### KIT 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.hydranalix.com](http://www.hydranalix.com)





# SWIFT WATER EMILY KIT

HEPSWKT1000

## KIT INCLUDES

- SWRE Float Cover
- Battery Charger 2-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 2-Pack
- Futaba Transmitter
- User Manual
- Life Jacket
- Helmet
- Headlight
- 2 VHF Radios



HEPEMBT1000



HEPBACH2002



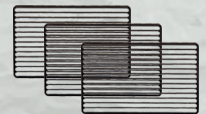
HEPBATT1002



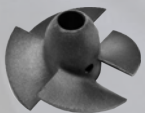
HEPSABS1000



HEPELAC1000



HEPINGR1003



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN2000



HEPLJKT1000



HEPHLMT1000



HEPHDLT1000



HEPVHFR1002

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



# 2023 SWIFT WATER EMILY KIT

## SWIFT WATER EMILY

- Weight 31 lb
- Height 14 in
- Width 14 in
- Length 50 in
- Self-righting
- Custom Labels
- Orange Flag 4 ft
- Speed 25 mph or 21 + kts
- Positive Buoyancy 150 lb
- Electric Motor with Cooling Jacket
- 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.hydronalix.com](http://www.hydronalix.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
- Antenna Flags 2-Pack
- Boat Stand
- Tool Kit
- Lanyard 2-Pack
- Futaba Transmitter
- User Manual
- Canvas Airline Carry Bag
- Reversing Bucket
- Digital GPS



HEPSNBT1000



HEPBACH2002



HEPBATT1002



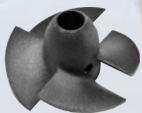
HEPSABS1000



HEPELAC1000



HEPINGR1000



HEPIMPE1000



HEPAFLG1002



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN3000



HEPEMBG1000

**Patents Include:**

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## 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

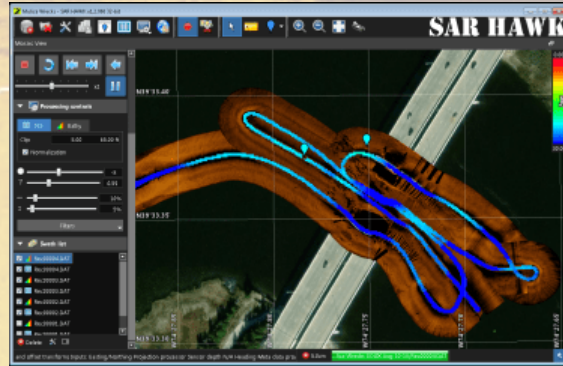
MEGA Side Imaging, MEGA Down Imaging,

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.





# MAN OVERBOARD EMILY (MOBE) KIT

HEPMBKT1000

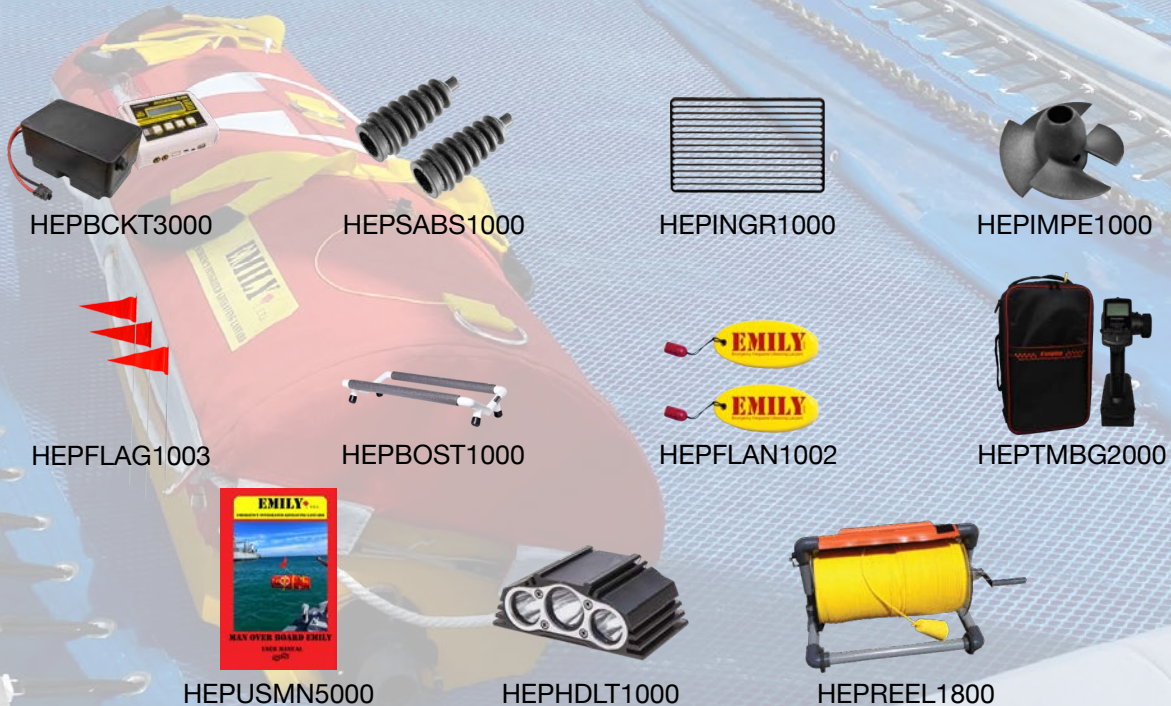
## KIT INCLUDES

- MOBE Float 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
- 1800 Foot Reel
- Reflective Strips
- Navigation Lights (Port Red Light, Starboard Green Light)

\*Battery and Charger Kit NOT Legal for Commercial Airline Travel



HEPMBBT1000



HEPBCKT3000

HEPSABS1000

HEPINGR1000

HEPIMPE1000

HEPFLAG1003

HEPBOST1000

HEPFLAN1002

HEPTMBG2000

HEPUSMN5000

HEPHDLT1000

HEPREEL1800

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



## POLICE EMILY KIT

HEPPOKT1000

### KIT INCLUDES

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



HEPPOBT1000



HEPBACH2002



HEPBATT1000



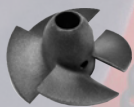
HEPSABS1000



HEPELAC1000



HEPINGR1000



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN6000



HEPHDLT1000



HEPVHFR1002

For more information go to: [www.hydranalix.com](http://www.hydranalix.com)



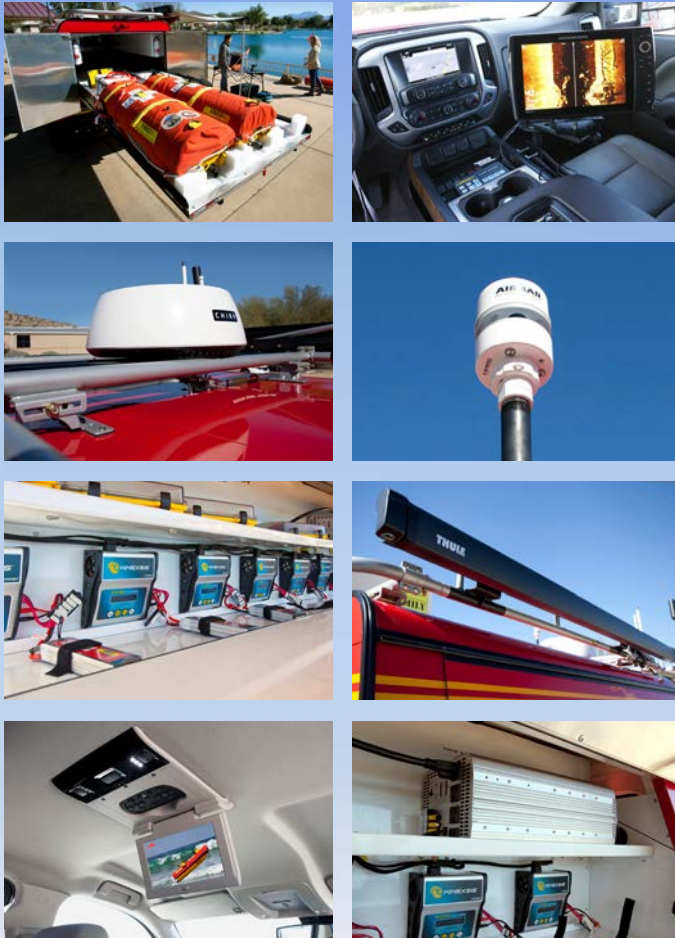


# MOBILE ROBOTIC COMMAND VEHICLE

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



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



# 2023

For more information go to: [www.hydronalix.com](http://www.hydronalix.com)







**Battery Module**  
\*Commercial Airline Compatible  
HEPBATT1000



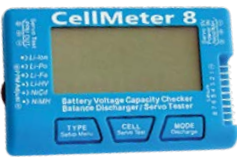
**Battery Module 2-Pack**  
\*Commercial Airline Compatible  
HEPBATT1002



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



**Battery Module Case**  
HEPBTC1000



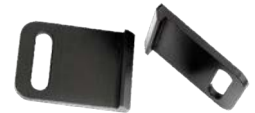
**Battery Capacity Checker**  
HEPBTC1000



**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

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



# 2023 PARTS & ACCESSORIES



**E Float Lanyards 3-Pack**  
HEPFLAN1003



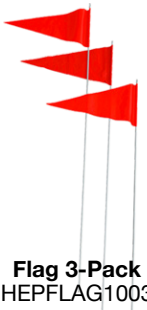
**Electrical Anti-Corrosion Solution**  
HEPELAC1000



**Electric Motor w/Housing**  
HEPELMH1000



**Exit Nozzle**  
HEPEXNZ1000



**Flag 3-Pack**  
HEPFLAG1003



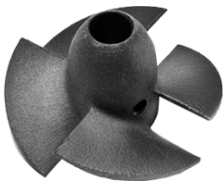
**Futaba Transmitter & Carry Case**  
HEPTMBG2000



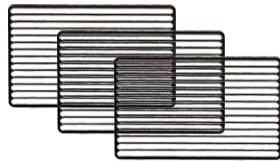
**Hatch Cover 2-Pack**  
HEPHTCV1002



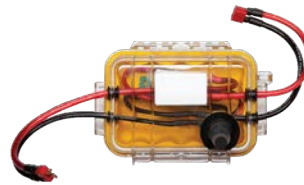
**Headlight**  
HEPHDLT1000



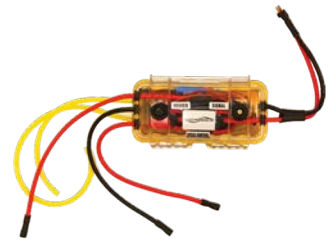
**Impeller**  
HEPIMPE1000



**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**  
HEPRTC1002



**Rescue Reel 800 ft**  
HEPREEL0800

For more information go to: [www.hydranalix.com](http://www.hydranalix.com)



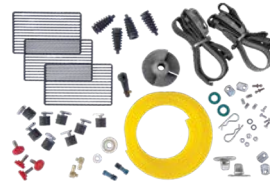




**Rescue Reel 1800 ft**  
HEPREEL1800



**Signal Wire**  
HEPSIGW1000



**Spare Parts**  
HEPSPKT1000



**Stainless Steel Fastener Kit**  
HEPFAKT1000



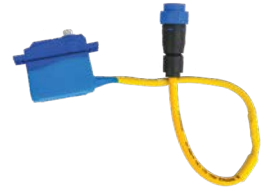
**Steering Arm Assembly**  
HEPSTAA1000



**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

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



# 2023 CUSTOMIZABLE COVERS



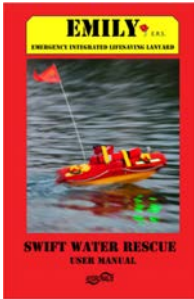
**Custom Covers Available**  
Let our graphics department draft your cover

For more information go to: [www.hydronalix.com](http://www.hydronalix.com)





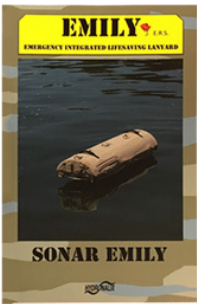
**Beach Rescue EMILY User Manual**  
HEPUSMN1000



**Swift Water Rescue EMILY User Manual**  
HEPUSMN2000



**SONAR EMILY User Manual**  
HEPUSMN3000



**CAMO SONAR EMILY User Manual**  
HEPUSMN3100



**MOBE User Manual**  
HEPUSMN5000

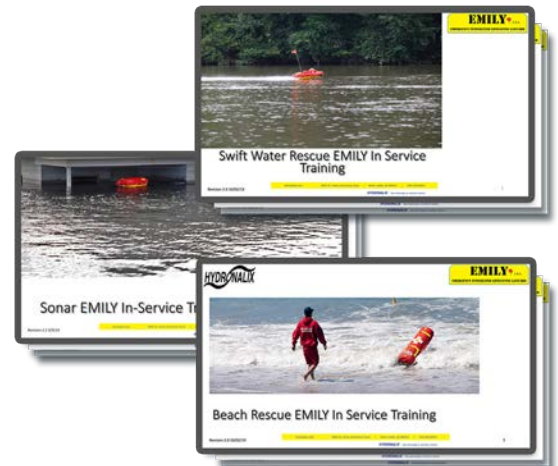


**Police User Manual**  
HEPUSMN6000



**MRC Vehicle User Manual**  
HEPUSMN7000





# 2023



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:

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

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[www.hydronalix.com](http://www.hydronalix.com)  
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