

EMILY E.R.S.

EMERGENCY INTEGRATED LIFESAVING LANYARD



HYDRONALIX

2024
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.hydronalix.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



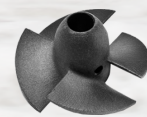
HEPTMBG2000



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

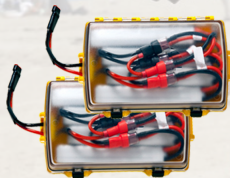
- Float Cover
- Battery Charger 4-Pack
- Battery Module 2-Pack
- 2 Additional Steering Arm Boot Seals
- Electrical Anti-Corrosion Solution
- 3 Additional Inlet Grates
- Additional Impeller
- Flags 3-Pack
- Boat Stand
- Tool Kit
- Lanyard 3-Pack
- Futaba Transmitter
- User Manual
- Storage Cabinet
- Charger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



HEPEMBT1000



HEPBACH2004



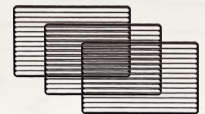
HEPBATT1002



HEPSABS1000



HEPELAC1000



HEPINGR1003



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1003



HEPTMBG2000



HEPUSMN1000



HEPSTCA1000



HEPCHCA1000

For more information go to: www.hydronalix.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



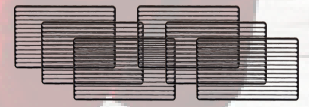
HEPBATT1004



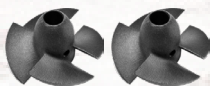
HEPSABS1000



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



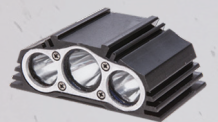
HEPUSMN2000



HEPLJKT1000



HEPHLMT1000



HEPHDLT1000

For more information go to: www.hydronalix.com



SWIFT WATER EMILY KIT

HEPSWKT1000

KIT INCLUDES

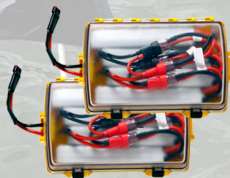
- SWRE Float Cover
- Battery Charger 2-Pack
- Battery Module 2-Pack
- 2 Additional Steering Arm Boot Seals
- Electrical Anti-Corrosion Solution
- 3 Additional Inlet Grates
- Additional Impeller
- Flags 3-Pack
- Boat Stand
- Tool Kit
- Lanyard 2-Pack
- Futaba Transmitter
- User Manual
- Life Jacket
-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



HEPEMBT1000



HEPBACH2002



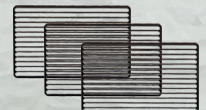
HEPBATT1002



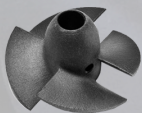
HEPSABS1000



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

2024 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 yrds 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



SONAR EMILY KIT

Transducer is permanently mounted in boat hull
HEPSNKT1000

KIT INCLUDES

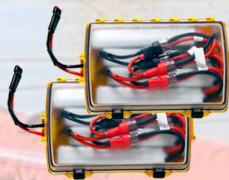
- Float Cover
- Sonar Payload Station
- Battery Charger 2-Pack
- Battery Module 2-Pack
- 2 Additional Steering Arm Boot Seals
- Electrical Anti-Corrosion Solution
- Additional Inlet Grate
- Additional Impeller
- Antenna Flags 2-Pack
- Boat Stand
- Tool Kit
- Lanyard 2-Pack
- Futaba Transmitter
- User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



HEPSNBT1000



HEPBACH2002



HEPBATT1002



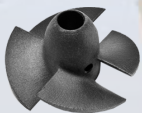
HEPSABS1000



HEPELAC1000



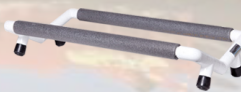
HEPINGR1000



HEPIMPE1000



HEPAFLG1002



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN3000



HEPEMBG1000

Patents Include:

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

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 Plus Display Size - Diagonal 30.48 cm

AutoChart Live with depth, vegetation and bottom hardness mapping

Displays Multi-Sonar Imaging Screens and GPS position

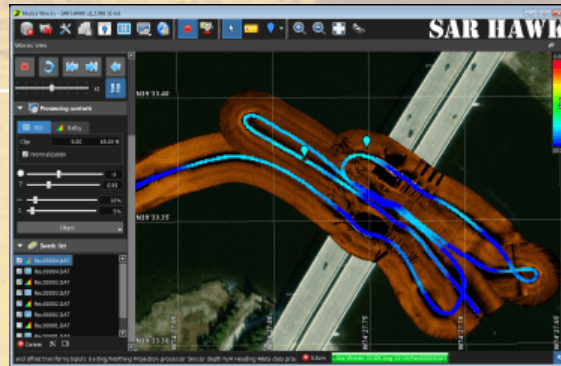
MEGA Side Imaging, MEGA Down Imaging,

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



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



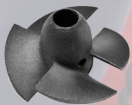
HEPSABS1000



HEPELAC1000



HEPINGR1000



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN6000



HEPHDLT1000



HEPVHFR1002

For more information go to: www.hydranalix.com





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
HEPBBLB1000



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

2024 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



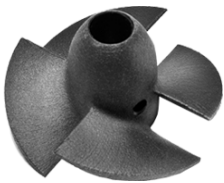
Futaba Transmitter & Carry Case
HEPTMBG2000



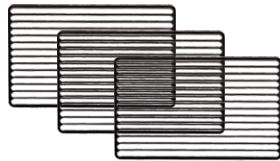
Hatch Cover 2-Pack
HEPHTCV1002



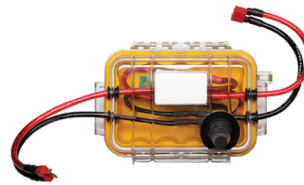
Headlight
HEPHDLT1000



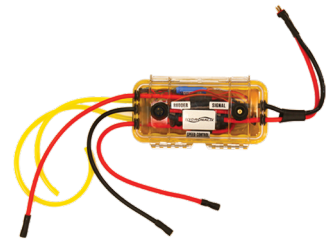
Impeller
HEPIMPE1000



Inlet Grate 3-Pack
HEPINGR1003



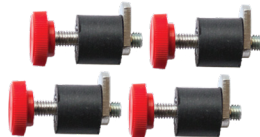
Magnetic Power Switch Box
HEPMPSB1000



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





Rescue Reel 1800 ft
HEPREEL1800



Signal Wire
HEPSIGW1000



Spare Parts
HEPSPKT1000



Stainless Steel Fastener Kit
HEPFAKT1000



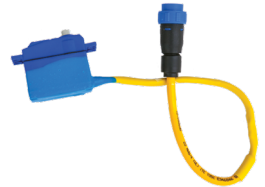
Steering Arm Assembly
HEPSTAA1000



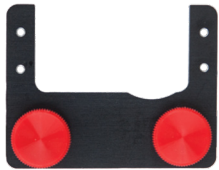
Steering Arm Boot Seals
HEPSABS1000



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

2024 CUSTOMIZABLE COVERS



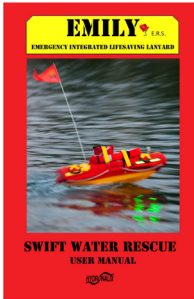
Custom Covers Available
Let our graphics department draft your cover

For more information go to: www.hydronalix.com





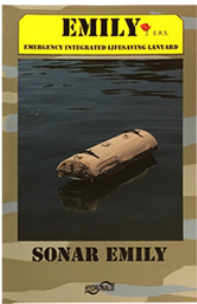
Beach Rescue EMILY User Manual
HEPUSMN1000



Swift Water Rescue EMILY User Manual
HEPUSMN2000



SONAR EMILY User Manual
HEPUSMN3000



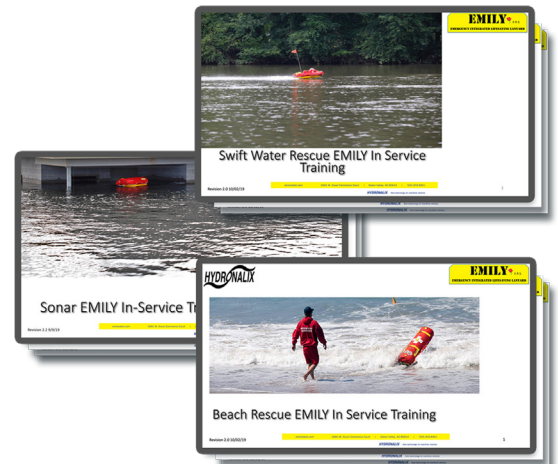
CAMO SONAR EMILY User Manual
HEPUSMN3100



MOBE User Manual
HEPUSMN5000



Police User Manual
HEPUSMN6000



2024



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

Hydronalix, Inc.
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520.203.8351



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