

U SAFE



U SAFE[®]

Technical Specifications



U SAFE

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The U SAFE is a self-propelled, remotely controllable system designed to be a fast and accurate “aquatic robot”, capable of quickly reaching a person in distress. It has a U-shaped hull with two electric turbines, one on each leg, which allows the device to operate regardless of which side is facing up.

The behavior and controllability of the U SAFE is highly effective due to the sophisticated guidance and navigation system.

It’s development aimed at simple and intuitive use, in order to allow anyone to perform a rescue, without previous training, maintaining high accuracy.

U SAFE is compact, approximately 80cm per 100cm and about 13,7kg, and its power is supplied by a lithium-ion battery.

The most important advantage of U SAFE lies in the ability to allow a rescue under the most adverse conditions, such as rough seas or rocky areas.

In this way, it prevents both the rescuer and vessel from being in danger.



Characteristics

"The future
of lifesaving
is here"

- Remote controllable
- The turbines are designed so that the device operates regardless of which side is up when throw into the water
- Continuity of operation if flipped by waves;
- 15 Km/h speed to enable a fast arrival to the person in need
- 2 motors that operate independently to enable fast and easy directional changes
- Patented propulsion system
- Turbine protection guard for enhanced injury prevention
- Latest generation battery technology to enable several rescue operations due to its lengthy autonomy
- Flashing LEDs showing information to monitor major device data and assist night rescues
- Waterproof buoyant remote-control in case of dropping in water
- Automatic turn-on operation
- Single body construction for increased durability
- Full functionality in harsh and difficult ocean conditions
- Wireless charging via integrated induction charger



Performance

Performance Characteristics

Range Line of sight
 @ Sea level - +/- 500mts
 @ 10 mts above sea level - +/- 800mts

Endurance 3 nmi - device only*

Speed Max - 15 Km/h - device only*
 Cruise – 7.5 Km/h - device only*

Note: Performance values have been determined for a standard scenario (flat water, no wind).
Environmental conditions of a varying scenarios will influence these values.



Body Structure

Physical Characteristics

Total Weight 13.70 Kg

Dimensions 956mm x 780mm x 255mm

Waterproof IP67

Body Materials HDPE W/Protection UV PU

Max Floatability 4 average persons

Environmental conditions

Working temperature -20°C to +50°C

Warehousing temperature -20°C to +45 °C

Relative Humidity 10% to 80% (without condensation)



Body Structure continued.

Radio Communication

Frequency 2.4 GHz

Motors

Brushless 2 x 1800 W

Impulse 2 x 90 N

Battery

Technology Lithium ion

Capacity 580 W/h

Balancing Yes

Temperature control Yes

Connectivity Bluetooth 4.2 Wi-Fi

Weight 3.8 Kg

Fast Direct Charger (optional) 4 hours

Charging Time (induction) 12 hours

Type of Charging Induction Charging or Fast Direct Charging**

**Optional Charger (sold separately)



Remote-Control

Physical Characteristics

Total weight	approx 220g (with battery)
Dimensions (A x L x P) (mm)	167mm x 54mm x 53mm
Floats	Yes
User Interface	myusafe.noras.pt / My U Safe App
Connectivity	Bluetooth 4.2 Wi-Fi



Battery

Technology	Lithium ion
Capacity	11.1 W/h
Nominal Voltage	3.6 V
Weight	46 g
Charging Time (induction)	4 hours
Autonomy	5 hours

Communication

Frequency	2.4 GHz
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Please feel free to contact FRSA
to discuss the right solution
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