ZELIM

Beyond-human certainty

FIND
RECOVER
PROTECT

PROTECTING WHAT
MATTERS MOST WITH
BEYOND-HUMAN CERTAINTY

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ZOE

ZOE provides real-time automatic person overboard detection and maritime situational awareness for safety and security. Always on watch, ZOE processes both daylight and infrared camera feeds, to provide round the clock consistent, accurate detection and classification of person in water (PIW), vessel, life raft and other sea surface objects, which can be missed by conventional radar or AIS.

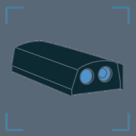
MOB KEY CAPABILITIES

- **Automatic detection** and alerting of persons falling oveboard.
- **Proven adult and child detection** validated through extensive real-world trials.
- **Real-time tracking** of person in water with live geolocation.

LOOKOUT KEY CAPABILITIES

- **Automated lookout** to enhance human watchkeepers in high-traffic environments.
- **Detection and classification** of ships and hazards to navigation via real-time object detection AI.
- **Always-on digital eyes** supporting fatigued or short-handed crews.

THE ZOE STACK



MOB

Automated person overboard detection providing real-time alerts to support rapid recovery.

MOB+

Advanced tracking of person on the surface, providing geo-location data to co-ordinate rescue.

LOOKOUT

AI-powered situational awareness for vessel detection, tracking and maritime safety.

LOOKOUT+

Detection, classification and tracking of surface threats, designed for high risk and security-focused operations.

SWIFT

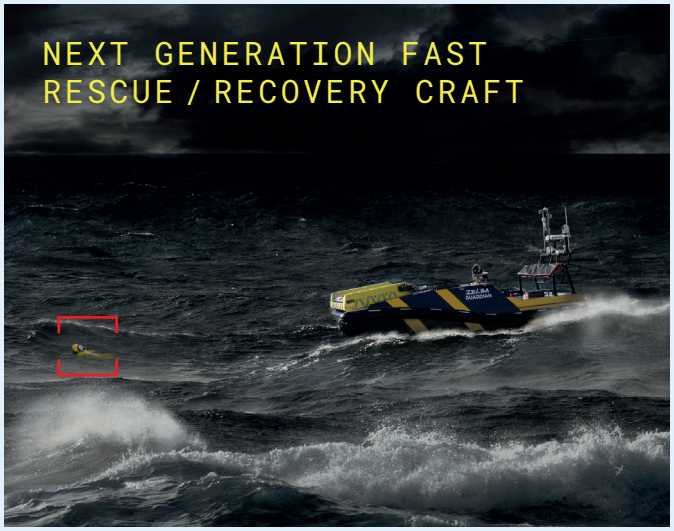
Safe in 60 seconds, the Swift provides fast, simple recovery of people (whether conscious or unconscious) and equipment from the surface. Swift can be operated single handed with minimal manual handling. Either incorporated into vessel design, or retro fitted for an enhanced recovery capability. Swift outperforms conventional equipment in flat calm and rough seas, increasing your ability to recover quickly and the persons chances of survival.

USE CASES:

- **Man overboard recovery**
  With ISO 19898, Swift is your primary means of MOB recovery, whether conscious or unconscious. Mass casualty recovery capability.
- **Equipment recovery**
  Scalable in size to fit the requirement of surface recovery.
- **Diver recovery**
  Floating platform for easy access and capability to recover equipment and diver separately or collectively.

Suitable for any low freeboard vessel, Swift has been installed on the following vessel types: Pilot Vessel, Rescue Vessel and Crew Transfer Vessel.

GUARDIAN



Guardian removes operational constraints of onboard crew, such as sea state and fatigue, to provide an enhanced rescue / recovery capability. Guardian is a remotely operated fast rescue / recovery craft capable of unmanned recovery of personnel and equipment. Equipped with Zelim's patented Swift rescue conveyor and ZOE intelligent detection, the vessel can perform multiple roles including search, patrol, standby and recovery. Guardian can also be operated from the helm.

USE CASES:

- **Person in water (PIW) recovery**
  Instantaneous launch capability from mothership or shoreside location, minimising transit and rescue time, increasing chance of survival.
- **Search and patrol**
  Fitted with ZOE, Guardian can patrol an area or cionduct a search without putting the human into harm's way.
- **Fast Rescue (FRC) / Close Standby**
  Designed to fit into existing FRC cradles.

DESIGNING SYSTEMS THAT EXTEND HUMAN REACH AND PRECISION

When a person falls overboard, timely detection of decides the outcome. Without automated systems, the probability of locating a person in the water can fall below 20%. Darkness, weather, human fatigue and delay cost lives.

Zelim builds intelligent maritime safety and security systems that detect instantly, track continuously, and support rapid recovery – extending human capability where it reaches its limits. This is beyond-human vigilance, engineered to eliminate uncertainty at sea.

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CERTIFICATIONS

ZOE MOB
Fully certified to ISO 21195:2020 by Lloyd's Register, scoring 97% detection rate during live cruise vessel testing.

Swift Rescue Conveyor
Type Approved to ISO19898 by LR.

Citation ISO Certification — ISO 9001: 2015 Quality management — REGISTERED — Certificate No: 449282024

Citation ISO Certification — Integrated Management System — ISO 14001: 2015 + ISO 45001 2018 — REGISTERED — Certificate No: 463652024

Citation ISO Certification — ISO 27001: 2022 Information security management — REGISTERED — Certificate No: 467412024

APPROVED LR

ZELIM DISTRIBUTOR IN GERMANY

uni-safe

Uni-Safe Rettungsgeräte GmbH
Langenkamp 26
D-22880 Wedel

Tel. +49 (0) 4103 928 572-0
info@unisafemilpro.com

www.unisafemilpro.com