

AUTOMATION & DRONIZATION KIT

SEA PROVEN TECHNOLOGY FOR
REMOTE OPERATIONS



Sirehna has developed an autonomous and remote control kit adaptable to existing platform and new build vessels to remotely control and perform remote operations.

Sirehna dronization kit includes:

- Remote ship control
- Remote payload control
- Communication systems for all range of operations
- Obstacle & collision avoidance
- Replication of the bridge including communication means (Shore center)

The operator is able to supervise the mission on the control station and has a direct control on the navigation and payloads. Sirehna's kit includes a situation awareness system processed by the drone using on-board sensors (radar, ais, video...) that is directly shared with the operator.

The communication system guarantees a high level of availability according to operational needs (PRU, wifi, 4G, S-band or VSAT).

- **REMOTE CONTROL NAVIGATION**
- **COMMUNICATION SYSTEM**
- **REMOTE PAYLOAD CONTROL**
- **OBSTACLE AVOIDANCE**
- **SHORE CENTER**
- **NEW BUILD OR REFIT**

SIREHNA DRONIZATION KIT



REMOTE SHIP CONTROL



REMOTE PAYLOAD CONTROL



COMMUNICATION SYSTEM



SHORE CENTER



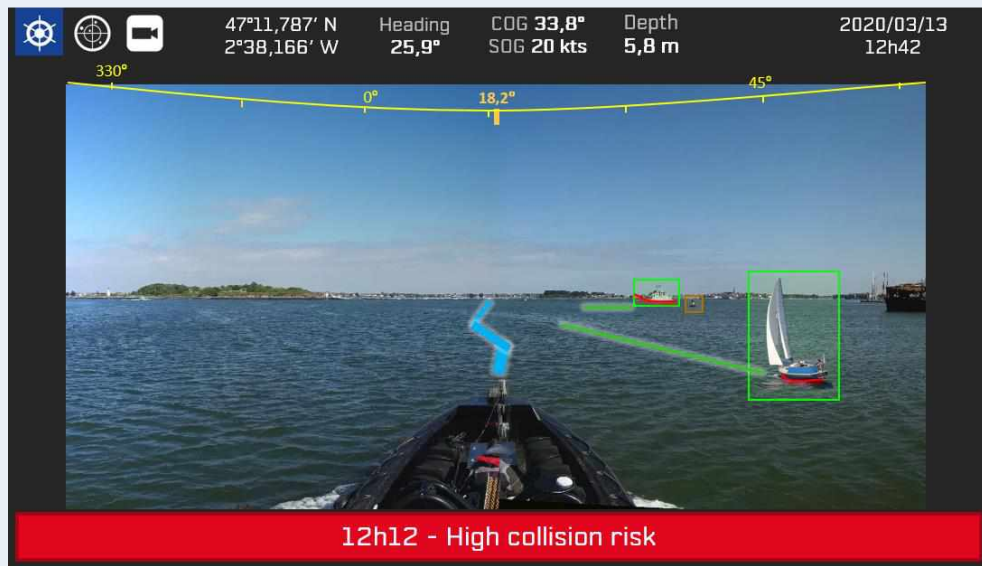
OBSTACLE & COLLISION AVOIDANCE



Shore center – Ground control station

Sirehna's shore center & supervision station allows remote piloting & management of active payloads/navigation equipment. The operator is able to pilot the vessel remotely depending on the communication system setup (PRU, wifi, 4G, S-band or VSAT).

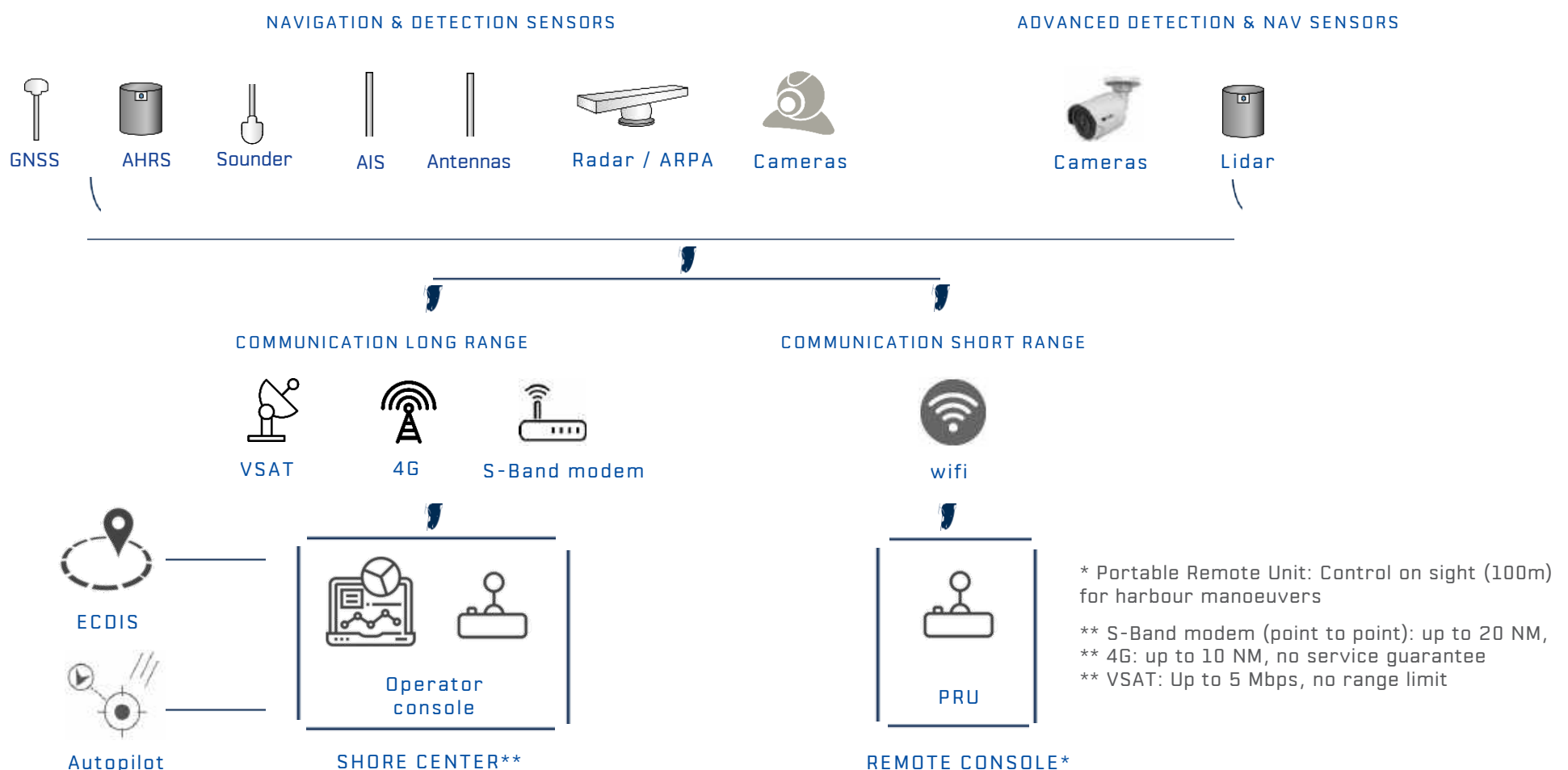
System enable the multi-sensors data fusion and display in real time the scalable tactical/operational/environment situation, in compliance with the operational applications.



Situational awareness – Obstacles avoidance

- Collision detection & obstacle avoidance (COLREG)
- Dedicated graphical user interface or integrated in shore center
- Augmented Reality (AR)
- Suggested manoeuvre indicating all the possible trajectories
- Surface target tracking & identification

SIREHNA DRONIZATION KIT ARCHITECTURE



SIREHNA

5, rue de l'Halbrane F-44340 Bouguenais
Tel.: +33 (0)2 44 76 57 57
www.sirehna.com/ / sales@sirehna.com



Technocampus site in Bouguenais

Certified management system

