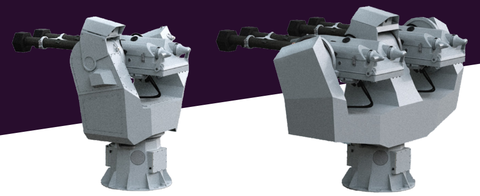
MISTRAL SIMBAD RC

Operational advantages

- Providing a highly effective and reliable last ditch defence against leakers or late appearing threats
- Easy to operate, minimum training requirement, easy to maintain, optimised for small crews
- Capable of defeating asymmetric surface threats
- The turret can be directly slaved to the ship's radar or electro-optical system
- Short system reaction time
- Fast and easy reloading at sea

Turret technical characteristics

- Loaded with 2 or 4 MISTRAL missiles
- Turret weight: 550kg (2 missiles)
  800kg (4 missiles)
- Bearing: +/- 160°
- Elevation range from -20° to +65°
- Turret equipped with:
  - Double field of view thermal sight
  - Inertial measurement unit for stabilisation
  - Autonomous tracking system



System technical characteristics

- The system is designed to operate one or two turrets through a single user friendly compact terminal
- The compact terminal displays:
- Turret equipped with: Thermal sight image / MISTRAL missiles information / Target data received from CMS / Orders from CMS
- Easy to integrate on a wide range of warships
- Easy to interface with ship's combat management system
- High autonomy – 24/7
- Simplicity of operation, low training and low maintenance
- Low manpower, only one operator needed to operate and two operators for reloading

Naval warfare capability

Especially designed for modern naval warfare, MISTRAL missile can cope with:

- Sea-skimming and manoeuvring anti-ship missiles
- Fighter aircraft
- Helicopters UAVs
- Small surface craft and USVs

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SELF PROTECTION INTEGRATED MISTRAL MODULE

INTEGRATED NAVAL SELF DEFENCE MODULE

MBDA

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SELF PROTECTION INTEGRATED MISTRAL MODULE (SPIMM)

INTEGRATED NAVAL SELF DEFENCE MODULE

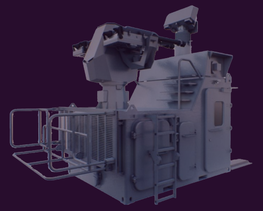
Recent conflicts and operations have demonstrated the overarching importance of an efficient, compact, and robust force protection capability as a prerequisite for all deployments. Vessels at sea and in littoral areas face a range of threats including anti-ship missiles, attacking aircraft and helicopters and aerial drones as well as the growing danger presented by surface drones and FIACs (Fast Inshore Attack Craft).

To defend against these threats, particularly for vessels not equipped with major armament nor a combat management system (CMS) such as supply and auxiliary ships, MBDA and Terma can meet the requirement with SPIMM - the Self-Protection Integrated Missile Module based on the already in-service SIMBAD-RC4 missile launching system.

SPIMM combines MBDA's experience in advanced missile technologies with Terma's strengths in C2 integration and sensors, the project aims to deliver a highly capable and adaptable modular defence solution that enhances the protection and survivability of both naval and ground-based assets.

The all-in-one SPIMM module consists of a fully enclosed shelter associated with a SIMBAD-RC4 automated naval turret that is equipped with four ready-to-fire MISTRAL 3 missiles and a 3D radar plus an Electro-Optical surveillance system to detect and track air and surface threats.

The system is orchestrated by Terma's C2 system, C-FLEX, the ideal choice for multi-role naval or coastal platforms that require tactical awareness. Two operators control the system entirely from the protection of the module's shelter. The shelter is also capable of storing eight additional missiles.





Operational Advantages

- Neutralize asymmetric threats such as USVs and FIACs
- Design allows for rapid installation and adaptation supply and, auxilliary vessels, landing helicopter docks, littoral sites or offshore installations requiring a self protection capability existing self-protection capability
- Easy to operate and maintain, minimum training requirement, optimized for small crews
- Light footprint adaptable to all types of surface platforms
- Designed for all weather – 24/7
- Fast and easy reloading at sea





SPIMM characteristics

Module

- 10 ft ISO standard platform (3 x 2.5m)
- Weight : approximately 7 tonnes
- Low manning (2 operators compartment)
- High reactivity
- 24/7 operation
- Easy integration

Launcher

- Bearing: +/- 160°
- Elevation: -20° to +55°

Infrared surveillance system

- High resolution thermal imager sensor (3-5 µm)
- Field of view: 360° (horizontally) x 10° (vertically)
- Rotation rate (1rt/sec.)
- Gyrostabilised platform

MISTRAL Missile

- Weight: less than 20kg
- Length: approximately 1.9 m
- Diameter: 90mm
- Max speed: around Mach 3
- High manoeuvrability: Intercept manoeuvring targets up to 9g
- Interception range: up to 8,000m
- Interception altitude: up to 6,000m
- Kill probability over 96%

