



MISTRAL SIMBAD-RC

REMOTELY CONTROLLED SELF-DEFENCE SYSTEM



MISTRAL SIMBAD-RC is an anti-air self defence system operating the very effective fire-and-forget MISTRAL missile. It is capable of providing the primary self defence capability for all warships or as a complement to their main air defences.

The system provides an extremely effective defence capability against all threats (anti-ship missiles, aircraft, helicopters as well as asymmetric surface threats). It has been optimised to handle a multi-threat scenario.

Thanks to its very small footprint, MISTRAL SIMBAD-RC can be installed on board a wide range of ships, from patrol boats up to support ships. It has been designed to conform to different combat system capabilities, from standalone to fully integrated.

Being fully controlled by a single operator from inside the vessel, the system offers 24/7 operational capability, even in adverse weather conditions and very high sea states. The system is therefore ideally suited to ships with low manning.

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
- A light footprint adaptable to all types of surface platforms (new build and retrofit)
- Capable of defeating asymmetric surface threats
- All-weather

Outstanding capability of the system results from:

- MISTRAL fire-and-forget missiles, allowing for fast reengagement after launch
- The turret can be directly slaved to the ship's radar or electro-optical system
- Autonomous tracking and identification with thermal camera
- Short system reaction time
- Fast and easy reloading at sea



Turret technical characteristics

- Turret weight: 480kg
- Bearing: +/- 160°
- Elevation aiming from -30° to +55°
- Loaded with two MISTRAL missiles
- 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:
 - Thermal sight image
 - MISTRAL missiles information
 - Tactical situation 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 can cope with:

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

Missile characteristics



- Fire-and-forget
- First VSHORAD missile with IR matrix imager
- 20 years lifetime without maintenance
- Over 96% kill probability – demonstrated on operations
- Immune to all known IR countermeasures

Length:	1.88m (incl. launch motor)
Weight:	less than 20kg
Maximum diameter:	~92mm
High manoevrability:	up to 30g
Interception range:	up to 8,000m
Interception altitude:	up to 6,000m
Min. interception range:	500m

- High supersonic speed – short interception time
- 3kg warhead coupled with laser proximity and impact fuze
- Qualified for use in extreme conditions
-40°C to +71°C

