



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 ideally suited therefore for 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

MISTRAL missiles

- Remotely controlled
- Low manning
- High reactivity
- 24/7 operation
- Easy integration



System configuration

- One or two lightweight automatic turrets each loaded with two MISTRAL missiles
- Embedded gyro-stabilisation
- Turret equipped with a double field of view thermal camera
- One dedicated compact terminal which can manage up to two turrets interfaced with the ship's combat system or surveillance sensors
- Simplicity of operation, low training and maintenance

MISTRAL's main features

- Lightweight fire-and-forget missile
- Passive IR homing guidance
- Proportional navigation guidance
- Control by canard fins
- Higher accuracy and efficiency
- Fire-and-forget (no need for Man-in-the-Loop)
- No dedicated fire control system on board
- High speed missile – short time to intercept

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

Outstanding success rate demonstrated during user firings is due to:

- Outstanding sea and ground clutter rejection by the MISTRAL seeker
- Low altitude interception with a specific trajectory shaping profile
- MISTRAL terminal effectiveness: outstanding guidance accuracy – proximity and impact fuzes – 3kg focused fragmentation warhead

Technical characteristics/specifications

Launcher fully-loaded

Weight:	480kg
Bearing:	+/- 160°
Elevation:	-30° +55°

Missile

Weight:	19.7kg
Length:	1.86m
Diameter:	90mm
Maximum speed:	> Mach 2.5

