SEA VENOM/ANL

NEW GENERATION MEDIUM-RANGE ANTI-SHIP MISSILE

Sea Venom/ANL is the new generation medium range anti-ship missile developed for shipborne helicopters of the Royal Navy and the French Navy.

Sea Venom/ANL has been designed from the outset as an anti-ship missile to provide true maritime strike capability, synchronized precision effects, and the ability to be deployed in complex littoral environments.

It features state-of-the art uncooled imaging infra-red (IIR) seeker technology with advanced algorithms to accurately select the correct target in dense shipping scenarios; and a robust two-way data link to allow 'Man Above the Loop' full supervision of the engagement from the cockpit.

The ability to select a very precise aim point provides the operator with a full range of lethal and non-lethal proportionate options – such as disabling main armaments, sensors, or propulsion/steering equipment. This means the system can be used within complex Rules of Engagement (RoE) constraints.

The system is being integrated on the Royal Navy's AW159 Wildcat helicopter as the principal Anti-Ship weapon, and will equip the French Navy's future maritime helicopters. Its utility and dependability, and the incorporation of standard interfaces, mean it can be considered for integration on a wide range of military airborne platforms, including manned helicopters, Remotely-Piloted Air Systems and Maritime Patrol Aircraft. Options also exist for surface-to-surface variants.

Operational advantages

- **Designed for the most demanding maritime operations and complex Rules of Engagement – able to engage hostile threats amongst non-combatants in congested littoral environments.**
- **Effective against a wide target spectrum, from small craft to larger warships, at sea or in port. Also provides coastal suppression capability against land-based threats and infrastructure.**
- **Simultaneous engagements against multiple targets**
- **Selectable target aim point for tactical precision and proportionate effect.**
- **High weapon survivability owing to: ECM resistance, high subsonic propulsion, true sea-skimming guidance, selectable flight profile and terminal manoeuvres.**
- **Safe stand-off – aircraft can turn away from the target post launch to remain outside surface to air missile range.**
- **Autonomous guidance and target selection reduces operator workload.**

MBDA
MISSILE SYSTEMS

MARITIME

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Product key features

- Safe stand-off range (over 20km class).
- Advanced sea skimming self-guidance with trajectory shaping for synchronised effects on the target.
- 30kg class anti-ship warhead: semi-armour piercing, blast and fragmentation effects.
- Robust two-way RF data link for in-flight monitoring and mid-course guidance updates – real time video imagery and missile status are relayed to the cockpit.
- Uncooled imaging IR seeker with advanced image processing and self-guidance.
- STANAG 4439 Insensitive Munition qualification.

Platform integration

- Lightweight, modular platform equipment design to ease system integration of up to four missiles.
- MilStd 1760/1553 stores interfaces and databus management. Multiple mission system interface options.
- Drop launch minimises boost motor effects on aircraft.
- Suitable for existing helicopter upgrade programmes.

Technical characteristics/specifications

Weight:	**120kg**
Length:	**2.5m**
Diameter:	**200mm**
Speed:	**High subsonic**

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