



# SEA CEPTOR

## ALL-WEATHER AIR DEFENCE WEAPON SYSTEM



**Sea Ceptor is the latest generation naval air defence weapon system, providing robust protection of host platform and escorted shipping out to 25km and extendable to beyond 40km with a multi-layer system.**

Through the use of new advanced technologies, Sea Ceptor provides robust and comprehensive protection against known and projected maritime air targets. The weapon system was accepted into service with the Royal Navy's Type 23 frigates in 2018 and will be entering service with several other nations over the next few years. Future developments will see Sea Ceptor installed onboard the Royal Navy's Type 26 and Type 31 frigates; CAMM will also form the intermediate air defence layer on Type 45 destroyers.

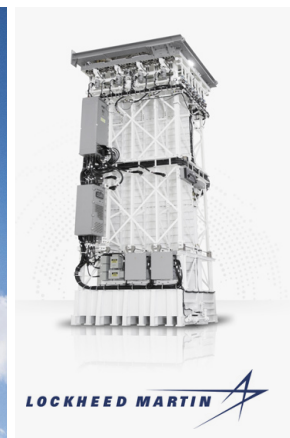
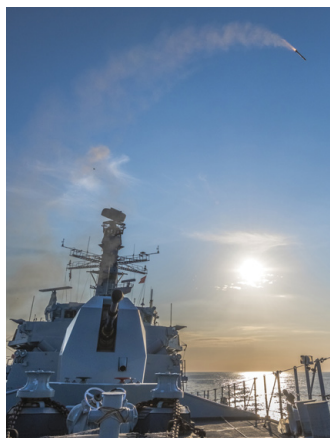
Sea Ceptor uses the same Common Anti-Air Modular Missile (CAMM) that is in service with the British Army for Ground-Based Air Defence, demonstrating the benefits of a common stockpile and delivering through life cost efficiencies.

Development of the weapon system with the introduction of the longer range CAMM-ER (Extended Range) munition, extends Sea Ceptor's area of influence to in excess of 40km.

The Sea Ceptor system delivers Local Area Air Defence capability for new and existing ships without complex platform sensor integration thanks to its fully active architecture.

### Operational advantages

- All-weather local area air defence of host platform and protected assets out to 25km and extendable to in excess of 40km with the addition of CAMM-ER.
- Fully active architecture allows high rate of fire against multiple simultaneous targets and the ability to defeat saturation attacks.
- High system performance against the full naval air target set including manoeuvring, low-signature targets in high level countermeasure environments, plus the ability to engage small high-speed surface craft with CAMM.
- Soft vertical launch technology gives 360° coverage in all launch sectors with exceptional close range performance and minimum launch signature.
- Compact missile and versatile launcher configurations permit high weapon loadout within a small footprint.
- Minimal logistics support and maintenance requirements enable through-life cost savings.



## Product key features

- Fully active architecture using advanced digital seeker combined with datalink target updates to deliver exceptional missile accuracy and single shot kill probability.
- Multiple channels of fire and a sophisticated weapon command and control system enable simultaneous defeat of raids of anti-ship missiles and other air targets.
- Sea Ceptor does not require dedicated tracking or fire control radars/illuminators, it works with modern 3D target indication and surveillance radars.
- Robust two-way RF data link provides 360 degree coverage with in-flight target updates by uplink and missile status downlink reports.
- Soft Vertical Launch (SVL) and missile turnover provide exceptional short range performance.

## Platform integration

- The Command and Control System is designed to enable flexible integration with both new and existing naval combat management systems.
- Sea Ceptor can be configured to operate either as a single tier air defence capability or as part of a multi-tier air defence system
- Can be used with a variety of surveillance sensor systems.
- Compact size and low weight enable high weapon loadout in a small volume, enabling it to be fitted to a wide range of platforms, ranging from 50m OPVs to frigates and destroyers.
- SVL eliminates the need for exhaust gas management within the vertical launch module and reduces launcher maintenance.
- CAMM has been fully developed for use with the Mk41 family Extensible Launcher System (ExLS) in a flexible range of configuration options. CAMM missiles can be quad packed within a single cell.
- Integration options within the Mk41 launcher are available to enable a mix loadout of CAMM and CAMM-ER. Both munition types will have the ability to be quad packed into Mk41 cells.

## Technical characteristics/specifications

### CAMM

<b>Weight:</b>	<b>99kg</b>
<b>Length:</b>	<b>3.2m</b>
<b>Diameter:</b>	<b>166mm</b>
<b>Range:</b>	<b>out to 25km</b>
<b>Speed:</b>	<b>Supersonic</b>



### CAMM-ER

<b>Weight:</b>	<b>160kg</b>
<b>Length:</b>	<b>4.2m</b>
<b>Diameter:</b>	<b>190mm</b>
<b>Range:</b>	<b>In excess of 40km</b>
<b>Speed:</b>	<b>Supersonic</b>

