

SL-AMRAAM

(Surface-Launched Advanced Medium-Range Air-to-Air Missile)



SL-AMRAAM provides the warfighter with an effective and fully integrated air defense solution for fixed or highly mobile assets.

Benefits

- Selected by the U.S. Army as the next-generation short-to-medium-range AMD system
- NASAMS version operationally deployed in NATO
- Over 30x increase in battlespace over line-of-site weapons
- 1.5x increase in lethality
- Combat-proven missile
- Operator “fire and forget”
- Tailorable system design with multiple configurations for command and control, and launchers

The Surface-Launched AMRAAM system-of-systems provides the warfighter a tailorable, state-of-the-art air defense system that can defeat current and emerging cruise missiles and a wide range of airbreathing threats. SL-AMRAAM combines combat-proven air superiority credentials with advanced fire control and battle management, and unparalleled surveillance radar and launcher-missile performance.

The SL-AMRAAM system is currently operational and available, combining the fire-

and-forget AMRAAM missile, the AN/MPQ-64 Sentinel surveillance radar, multiple launcher options, and a modern, advanced fire distribution center (FDC) that provides full control of all missile-launcher functions, to include the cueing of short-range air defense (SHORAD) units.

SL-AMRAAM is an open system architecture that provides fully netted and distributed operations. Modular components combine to form a fully integrated air defense system of systems. SL-AMRAAM maximizes the

warfighter’s capability for early identification, engagement and destruction of the current and evolving low-altitude cruise missile threats, while improving system survivability.

SL-AMRAAM offers wide flexibility, providing customers with a variety of options in their selection of major components. The system is simple to train and operate. Component hardware is standard and easier to maintain, allowing reduced manpower and overall cost.



Integrated Fire Control Station



Sentinel radar



SL-AMRAAM family of launchers

Integrated Fire Control

The FDC was selected by the U.S. Army as the baseline for its Integrated Fire Control Station (IFCS) and next-generation common AMD Battle Management Command, Control, Communications, Computers and Intelligence. SL-AMRAAM integrated fire control, FDC and IFCS employ a common set of complex weapon system engagement operations software in multiple hardware configurations. The open system architecture, combined with modular and scalable designs, enables fully netted and distributed operations and maximum flexibility for future growth.

AN/MPQ-64 Sentinel Radar

Multi-target search and tracking is performed by the AN/MPQ-64 Sentinel radar. A modern 3-D pencil beam radar features a large surveillance and track volume, a phase-frequency electronic scanning antenna, X-band range gated pulse Doppler operation, and high survivability. It has a high scan rate (30 RPM), 75 kilometer range and is electronic counter-measure resistant. This highly mobile system is fielded as the U.S. Army's premier forward-area air defense radar.

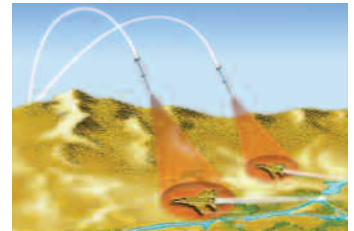
SL-AMRAAM Family of Launchers

With multiple launcher options, SL-AMRAAM is adaptable to any operational requirement. The Norwegian Advanced Surface-to-Air Missile (NASAMS) launcher is operational with the defense forces of both Norway and

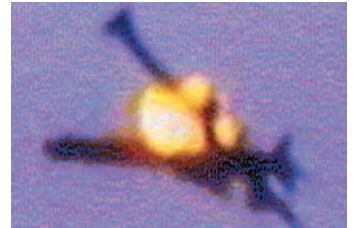
Spain. Six missiles per launcher are available in protected containers. The HMMWV-based launcher is the selected joint launcher for the U.S. Marine Corps CLAWS and the U.S. Army SL-AMRAAM programs. Using the same electronics employed in the NASAMS launcher, the HMMWV-based launcher is designed for highly mobile operations and can carry up to six AMRAAM missiles. The modular launch platform is also designed for adaptation to multiple vehicle types, and shipboard, rooftop or ground installation.

AMRAAM Missile

The Advanced Medium-Range Air-to-Air Missile (AMRAAM) has scored combat victories over the skies of Iraq, Bosnia and Kosovo. AMRAAM is employed today by the armed forces of 18 nations. With both beyond-visual-range and non-line-of-sight capability, AMRAAM is an all-weather, day or night missile that provides operational flexibility with multiple simultaneous engagement capability. AMRAAM lethality has been demonstrated in over 1,200 air-to-air tests and over 40 surface-launched tests. The missile has proven lethal against multiple maneuvering target types, in complex ECM, and at low and high altitudes.



AMRAAM



Proven AMRAAM lethality against cruise missile targets

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