AMRAAM



Advanced Medium-Range Air-to-Air Missile (AMRAAM)

AMRAAM's Performance and Reliability is Combat-Proven!



Benefits

- Highest dependability at lowest cost of ownership
- Operational flexibility
- Multishot capability
- State-of-the-art active radar guidance

The Advanced Medium-Range Air-to-Air Missile (AMRAAM) is combat-proven. AMRAAM has scored combat victories over the skies of Iraq, Bosnia, and Kosovo. Operational reliability of the AMRAAM is measured in thousands of hours - an order of magnitude improvement beyond other systems. More than 1500 hours of mean-time-betweenfailure are being exhibited by production AMRAAMs being flown daily by the air forces of 18 nations. With state-of-the-art active radar guidance, AMRAAM packs unprecedented performance into a lightweight package. Because of the incorporation of the latest digital technology and microminiaturized solid-state electronics, AMRAAM is significantly more reliable and maintainable – highest dependability at lowest cost of ownership.

AMRAAM provides operational flexibility and multishot capability. AMRAAM can be launched at an enemy aircraft day or night, and in all weather. At beyond visual ranges (BVR), it is guided initially by its inertial reference unit and microcomputer. During midcourse, AMRAAM receives target coordinate updating from the radar system of the launch aircraft. In the terminal phase of flight, the missile's active radar seeker guides it independently, without further reliance on the launching aircraft.





AMRAAM also allows the pilot to break away immediately after launch, permitting engagement of other targets and enhancing survivability. The pilot can ripplefire several AMRAAMs and maneuver out of danger. Additional AMRAAM operational capabilities include quick flyout, greater immunity against countermeasures and better lowlevel attack capability. The lowsmoke, high-impulse rocket motor reduces the chances of an enemy sighting either the launch or the oncoming missile and taking evasive action. AMRAAM capabilities, which have been demonstrated in over 1,200 flight test and combat launches, include look-down/ shoot-down, multiple launches against multiple targets, resistance to complex ECM, intercepts of high-flying, low-flying, and maneuvering targets, and intercepts at very short range in

dogfight situations.

The AMRAAM is operational on the F-15, F-16, F/A-18, the German F4F, and the United Kingdom's Sea Harrier as well as the Norwegian Advanced Surface-to-Air Missile System (NASAMS). Raytheon is currently integrating the AMRAAM on the F-22, Eurofighter, JAS-39 Gripen, JA-37 Viggen, Harrier II Plus, Tornado, and the HAWK-AMRAAM and HMMWV Surface Launch Systems.

AMRAAM is the international BVR standard. More than twenty countries have procured AMRAAM. This international procurement enables a high level of interoperability, commonality, and logistic support. In this global defense environment, interoperability is key to an effective coalition.

AMRAAM has demonstrated equally outstanding surface-to-air performance. Surface-launch

AMRAAM AIM-120C					
Specifications					
Length:	12 ft	3.65 m	Warhead:	45 lb	22 kg
Diameter:	7 in	17.8 cm	Guidance:	Active Radar	
Wing Span:	17.5 in	44.5 cm	Fuzing:	Proximity and Contact	
Fin Span:	17.6 in	44.7 cm	Launcher:	Rail and Eject	
Weight:	345 lb	157 kg			

applications find AMRAAM performance extremely effective with its multiple shot and highly effective ECCM capabilities to increase firepower. NASAMS was the first surface-launch system to take advantage of AMRAAM's unique capabilities for air defense operations. The HAWK-AMRAAM System utilizes existing HAWK elements and upgrades its firepower by using the AMRAAM. The use of the unmodified AMRAAM in both the air-launch and surfacelaunch applications enables a commonality that provides great logistics and life-cycle cost savings to operational forces.

The AMRAAM program is managed by the Joint System Program Offfice at Eglin Air Force Base, Florida, and is a model to today's defense acquisition reform process.

AMRAAM is in full rate production in Tucson, Arizona. Raytheon's Total Systems Performance Responsibility (TSPR) extends the evolutionary growth of AMRAAM, well into the future. Performance, reliability and affordability with state-of-the-art technology is Raytheon's commitment as the affordable, high-quality producer of missiles.



Air-to-Air Missiles P.O. Box 11337 Tucson, Arizona 85734-1337 USA 520.794.9249 520.794.5451 fax

www.raytheon.com

