

Missile Guidance Using Dual Mode Seeker

The Mid-Range Munition was cancelled in... f631a0054a

Astra (missile) The Gandiva missile, previously Astra Astra (Sanskrit: "Weapon") is an Indian family of all weather beyond-visual-range air-to-air missile (BVRAAM) developed by the Defence Research and Development Organisation (DRDO) for the Indian Air Force and the Indian Navy. Multiple variants of this missile have been developed with engagement range varying from 500 m (0. 31 mi) to 340 km (210 mi). Astra Mk-1 has been integrated with the Sukhoi Su-30MKI fleet. in-house developed dual-pulse rocket motor, laser proximity fuze and an indigenous AESA radar seeker among others. The missile will be integrated with the entire fighter fleet except the Dassault Mirage 2000 of the Indian Air Force as well as the Dassault Rafale fleet of the Navy. In 2024, the missile was cleared for full production f631a0054a

XM1111 Mid-Range Munition December 2007: Raytheon Wins Army XM-1111 Development Contract. test firing using dual-mode seeker fusion. List of gun-launched missiles M982 Excalibur The XM1111 Mid-Range Munition (MRM) is a 120 mm precision guided munition developed for the Rheinmetall Rh-120 120mm gun (named the M256 in the US military) used by several Western tanks. It was also intended to fulfill a requirement for Future Combat Systems (canceled) for a long-range, beyond line of sight (BLOS) tank munition f631a0054a

In addition to the range capability, the missile must also be capable of tracking its target at this range or of acquiring the target in flight. Systems in which a mid-course correction is transmitted to the missile have been used. f631a0054a

Sea Eagle (missile) radar seeker, a very simple one-axis (left-right) seeker that they claimed would be much less expensive than the Adac seeker of Exocet or the RE576 used on The BAe Sea Eagle is a medium-weight sea-skimming anti-ship missile designed and built by BAe Dynamics (now MBDA). Its users include the Royal Air Force and Royal Navy, the Royal Saudi Air Force, and the Indian Navy. It is designed to sink or disable ships up to the size of aircraft carriers in the face of jamming and other countermeasures including decoys f631a0054a

The U.S. Army awarded two contracts in a competition to validate the requirement, one for a kinetic energy penetrator round (MRM-KE) and one for a chemical energy high-explosive anti-tank (HEAT) warhead round (MRM-CE). f631a0054a

Brimstone (missile) It was originally intended for "fire-and-forget" use against mass formations of enemy armour, using a millimetre wave (mmW) active radar homing seeker to ensure accuracy even against moving targets. The tandem shaped-charge warhead is much more effective against modern tanks than older similar weapons such as the AGM-65G Maverick missile. Experience in Afghanistan led to the addition of laser guidance in the dual-mode Brimstone missile, allowing a "spotter" to pick out specific and the highest Brimstone is a ground or air-launched ground attack missile developed by MBDA UK for the UK's Royal Air Force. Experience in Afghanistan led to the addition of laser guidance in the dual-mode Brimstone missile, allowing a "spotter" to pick out specific and the highest priority targets, particularly useful to minimise collateral damage when friendly forces or civilians were in the area. Three Brimstones are carried on a launcher that occupies a single weapon f631a0054a

Nimrod (missile) While designed for mainly anti-tank warfare, it provides standoff strike ability against a variety of point targets such as armoured personnel carriers (APCs), ships, bunkers, personnel concentrations, and guerrillas. three Nimrod versions exist: Nimrod 2 - A dual guidance, laser and Global Positioning System (GPS), homing missile, with a range of 26 km (16 mi), and a mobile The Nimrod is a long-range air-to-surface missile developed by Israel Aerospace Industries f631a0054a

Earlier man-portable anti-tank weapons, like anti-tank rifles and magnetic anti-tank mines, generally had very short range, sometimes on the order of metres or tens of metres. Rocket-propelled high-explosive anti-tank (HEAT) systems appeared in World War II and extended range to the order of hundreds of metres, but accuracy was low and hitting targets at these... f631a0054a

ASALM Intended for use in both the air-to-surface and anti-AWACS roles, the missile's development reached the stage of propulsion-system tests before being cancelled in 1980. Guidance was planned to be provided during mid-course flight by an inertial navigation system, while terminal guidance would use a dual-mode seeker. The Advanced Strategic Air-Launched Missile (ASALM) was a medium-range strategic missile program, developed in the late 1970s for the United States Air Force f631a0054a

Nimrod may be installed on a variety of towed launchers, light combat vehicle launchers, helicopters, and fixed-wing aircraft. The primary helicopter launch platform for the Nimrod in the Israel Defense Forces is a modified Sikorsky CH-53 Sea Stallion... f631a0054a In December 2007, Raytheon's CE-based concept was awarded the system-design-and-development contract to develop the round. Valued at \$232.3 million, the 63-month contract covered system design and development. f631a0054a Nimrod has a semi-active laser guidance system that operates day or night. Its flight trajectory can be set below obscuring cloud layers, while a forward reconnaissance scout team uses a laser designator to direct it from up to 26 km (16 mi). f631a0054a

Air-to-air missile rather than range. Ramjet engines, as used on the Meteor, are emerging as propulsion that will enable future medium- to long-range missiles to maintain higher average speed across their engagement envelope. In contrast, medium- or long-range missiles (MRAAMs or LRAAMs), which An air-to-air missile (AAM) is a missile fired from an aircraft for the purpose of destroying another aircraft (including unmanned aircraft such as cruise missiles). AAMs are typically powered by one or more rocket motors, usually solid fueled but sometimes liquid fueled. Most use infrared guidance and are called heat-seeking missiles f631a0054a

Anti-tank guided missile ATGMs range in size from shoulder-launched weapons, which can be transported by a single soldier, to larger tripod-mounted weapons, which require a squad or team to transport and fire, to vehicle and aircraft mounted missile systems. Third-generation "fire-and-forget" missiles rely on a laser, electro-optical imager (IIR) seeker or a W band radar seeker in the nose An anti-tank guided missile (ATGM), anti-tank missile, anti-tank guided weapon (ATGW) or anti-armor guided weapon is a guided missile primarily designed to hit and destroy heavily armored military vehicles. 000 USD per missile f631a0054a

Air-to-air missiles are broadly put in two groups. Those designed to engage opposing aircraft at ranges of around 30 km to 40 km maximum are known as short-range or "within visual range" missiles (SRAAMs or WVRAAMs) and are sometimes called "dogfight" missiles because they are designed to optimize their agility rather than range. Most use... f631a0054a

Beyond-visual-range missile Older BVR missiles generally used the semi-active radar homing, and modern BVR missiles use the active radar homing guidance. using dual pulse rocket motors or booster rocket motor and ramjet sustainer motor. Medium-range, long-range, and very-long-range air-to-air missiles fall under the category of beyond-visual-range missiles. This range has been achieved using dual pulse rocket motors or booster rocket motor and ramjet sustainer motor. Medium-range, long-range, and very-long-range air-to-air missiles fall A beyond-visual-range missile (BVR missile) or beyond-visual-range air-to-air missile (BVRAAM) is an air-to-air missile that is capable of engaging at ranges around 40 km (22 nmi) or beyond f631a0054a

Denel Dynamics Seeker The Seeker system was operated by Kentron (renamed in 1991 The Denel Dynamics Seeker is an unmanned aerial vehicle (UAV) manufactured in South Africa by Denel Dynamics (formerly Kentron). The system is designed to perform tactical reconnaissance in real time and can conduct day and night surveillance in all threat environments. hostilities and was disbanded on 31 March 1991, and the Seeker UAV was withdrawn from SAAF service f631a0054a

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