

A-DARTER

Fifth-generation Air-to-air Missile System



A-Darter is a leading wingtip fifth-generation Imaging Infrared (IIR) SRAAM air-to-air missile system. It has a lock-on after launch and memory tracking with the latest processing capabilities. The A-Darter may be designated to a target by using the aircraft's radar, a helmet sight or the missile's very effective autonomous scan feature if radar silence is required. The seeker's large look-angles and the airframe's agility enable high off-bore sight helmet-designated firings. Long-range intercepts beyond IR detection range are also possible with the lock-on after launch capability of the A-Darter.

The missile can be integrated on the latest and older generation aircraft platforms. It has already been integrated on the JAS-23 Gripen and integration on the Hawk Mk 120 is under way.

System Features

- A-Darter is a leading wingtip fifth-generation Imaging Infrared (IIR) SRAAM that will enhance your platform's lethality
- Designed by Denel Dynamics (co-funded by Brazil), utilising its 50 years of air-to-air missile experience
- High agility (thrust vector controlled) to handle the closest of close combats
- A two-colour thermal imaging seeker with high sensitivity and a multi-mode ECCM suite
- Advanced digital processing capability ensures improved performance in terms of image detection, false target rejection, ECCM, guidance and control
- Lock-on after launch and memory tracking capabilities

Principle of Operation

The A-Darter may be designated to a target by using the aircraft's radar, a helmet sight or the missile's very effective autonomous scan feature if radar silence is required. The seeker's large look-angles and the airframe's agility enable high off-boresight helmet-designated firings. Long-range intercepts beyond IR detection range are also possible with the lock-on after launch capability of the A-Darter.

Aircraft Integration

The A-Darter missile can be integrated on the latest and older generation aircraft platforms. It has already been integrated on the JAS-39 Gripen. Integration on the Hawk Mk 120 is under way.

Technical Data

- Length : 2 980 mm
- Diameter : 166 mm
- Mass : 93 kg

