



## **ASRAAM**

### **Advanced short range air-to-air missile**

ASRAAM is the Advanced Short Range Air-to-Air Missile in service with the Royal Air Force as their Within Visual Range missile. The missile enters service with the Royal Australian Air Force on their F/A-18 aircraft in August 2004.

In short-range air combat, the ability to strike first is vital. A pilot engaging an enemy needs a missile that reacts more rapidly than ever before, and has the speed and agility to ensure maximum kill potential regardless of evasive target manoeuvres or the deployment of countermeasures.

ASRAAM can engage any target you can see... as well as the ones that you can't.

ASRAAM will accept target information via the aircraft sensors, such as the radar or helmet mounted sight but can also act as an autonomous infrared search and track system.

The missile's high speed combined with the most accurate thermal imaging guidance system and highly effective lethal mechanism ensure the highest kill probability against any target.

Already fully integrated onto the Tornado and F/A-18, ASRAAM is also being integrated to equip the F-35 Joint Strike Fighter.

#### **Launch**

- Instantaneous cueing from radar or helmet sight
- All round target designation
- Instant response to trigger press

#### **ASRAAM gets the first shot**

#### **Intercept**

- Highest speed
- Unrivalled aerodynamic agility
- Accurate and predictive tracking

#### **ASRAAM gets the quickest intercept**

#### **Destroy**

- Outstanding resistance to countermeasures
- Highly effective warhead
- High precision tracking

#### **ASRAAM gets the first kill**

- **Redefines WVR combat**
- **First shot**
- **First intercept**
- **First kill**



### Missile guidance

- Focal plane array seeker
- Real world imagery
- Long acquisition range
- Unprecedented countermeasure resistance

### Cooling System

- Seeker detector cooling
- Accepts argon, nitrogen or air supplies

### Inertial sensor

- 3 axis fibre optic gyro
- Solid state accelerometers
- Provides increased reliability and faster missile launch

### Fuzing and Warhead

- Impact and laser proximity fuzes maximise lethality against both large and small targets
- High lethality blast fragmentation warhead

### Rocket Motor

- Low signature
- Outstanding acceleration and range capability
- Quickest intercept

### Actuation system

- Compact high torque proven technology

### Electronic and power unit

- Millions of image processing and flight control computations performed every second

### NAME

- ASRAAM

### MISSILE CHARACTERISTICS

- Weight: 88 kg
- Length: 2.9 m
- Diameter: 0.166 m



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