



MOD's planned RPAS solution builds on the highly acclaimed Brimstone missile (98.7% effectiveness achieved during in-theatre operations) to specifically meet the PROTECTOR programme requirements by providing the operator with the ability to reliably and simply engage, in both direct and indirect fire modes, a wide range of target types with its multi-effect warhead.

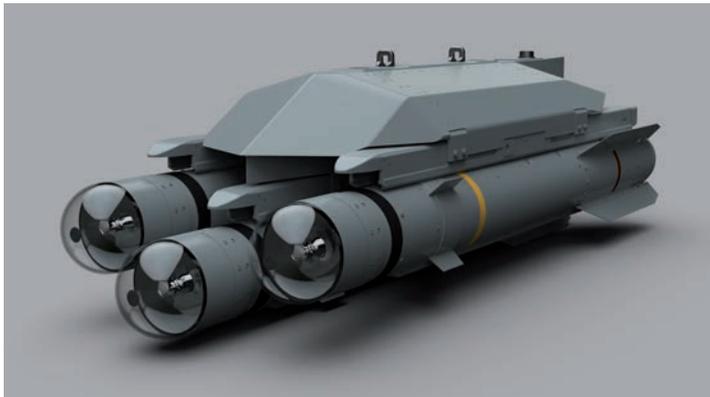
This target set includes armour, fast moving vehicles, structures and FIACs (Fast Inshore Attack Craft).

Brimstone features an IM compliant rocket motor and multi-effect, tandem-shaped charge warhead with an impact, delayed or proximity fuse capability. Its dual mode seeker will provide flexible engagement modes to maximise the RPAS's target acquisition, designation and fire control system.

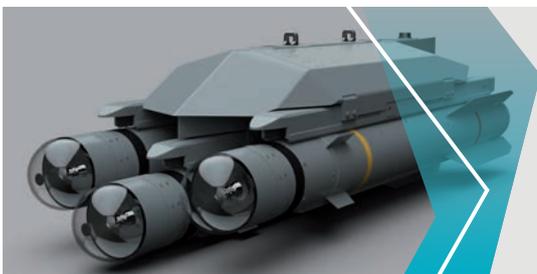
A 50 kg weapon family designed to be integrated onto a wide range of air, land and sea platforms including fast jets and helicopters.

BRIMSTONE FOR REMOTELY PILOTED AIR SYSTEMS

ADVANCED DUAL MODE,
MULTI-ROLE, MULTI-EFFECT,
PRECISION SYSTEM



- One missile for all missions and all platforms
- All-weather, fire-and-forget capability
- Dual Mode seeker for low collateral, precision strike
- High off-boresight angle capability
- Significantly increased carriage and release envelopes
- Innovative training solutions
- Environmental robustness; fly higher for longer
- Increased stand-off enhances survivability and time on target
- Unique Insensitive Munition performance provides the platform high survivability in hostile environments



LAND, AIR

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Seeker

- 94 Ghz Millimetric Wave (mmW) radar
- Semi-Active Laser (SAL)

Flexible Modes of Engagement

- SAL, SAL/mmW, mmW modes. In dual mode, SAL guidance can handover to mmW guidance for increased accuracy once the missile determines the exact target being designated
- Rapid salvo capability (mmW only mode) for area, column and point kill

Effects

- Effective against a wide variety of ground (including all known conventional and reactive armour) and air targets
- Low collateral damage in restrictive engagement scenarios

Navigation & Guidance

- Next generation IMU and autopilot for precision at range
- Inertial mid-course navigation and seeker determination for target acquisition
- High bandwidth guidance and agility for fast manoeuvring targets

Propulsion

- Cast double base propellant rocket motor
- Strip steel laminate motor case

Name

- **BRIMSTONE**

Missile characteristics

- **Weight: 50 kg**
- **Length: 1.8 m**
- **Diameter: 180 mm**
- **Guidance: Millimetric Wave Radar and Semi-Active Laser**
- **Warhead: Multi effect, tandem-shaped charge with adaptive fusing**

Proven capability against agile land targets at speeds up to 70 mph



Proven capability against agile maritime targets in congested environments

