



Brimstone®2 defeats the most challenging targets with a single missile shot and a low risk of collateral damage. It is a multi-mission, combat-proven missile that is available today for multiple platforms - fighter jets, helicopters, and unmanned aircraft. UK Royal Air Force (RAF) fighter aircraft have employed Brimstone missiles in hundreds of combat shots in Afghanistan and Libya, with a "one-shot/one-kill" success rate over 95% for surgical strikes, salvo attacks against armor formations and time-critical missions in cluttered environments. Brimstone 2's precision and controlled blast also make it an ideal Close Air Support (CAS) weapon.

Brimstone 2's success comes from its dual sensor seeker technology. It integrates Semi-Active Laser (SAL) and Millimeter Wave (MMW) Radar sensors to deliver precision effects. Whether the target is stationary or moving, Brimstone 2 is a single weapon able to defeat a wide range of threats with one shot.

Brimstone 2 is also being developed for use in the maritime environment against Fast In-shore Attack Craft (FIAC). In May 2013, multiple Brimstone missiles operating in an autonomous millimetric wave (MMW) mode completed the world's first single button, salvo engagement of multiple FIAC, destroying three vessels (one moving) inside a kill box, while causing no damage to nearby neutral vessels. Additionally, in RAF testing in 2014, Brimstone missiles with the latest Dual Mode anti-FIAC software defeated two 700HP speedboats, also

with no damage to nearby neutral vessels. MBDA continues to invest in expanding Brimstone's maritime capabilities.

Brimstone 2 is an ideal weapon for multiple missions:

- Air Interdiction
 - Close Air Support (CAS)
 - Mass Attack / Anti-Armor
 - Anti-Small Boat (FIAC)
 - Maritime Defense
-
- **Combat-proven against static and maneuvering targets**
 - **Salvo fire against multiple targets (in millimetric wave (MMW) autonomous mode)**
 - **Demonstrated anti-FIAC capability**
 - **Lethal against vehicles traveling over 70MPH**
 - **Pin-point accuracy and low risk of collateral damage**
 - **Operator-In-The-Loop capability to meet restrictive Rules of Engagement**
 - **Triples the weapon load out per pylon**
 - **Standard interface assisting integration to multiple platforms**
 - **Insensitive Munitions motor and warhead**
 - **In production today with future production in America**

BRIMSTONE® 2

ADVANCED MULTI-ROLE PRECISION STRIKE WEAPON



AIR

MBDA Contacts

HQ Washington D.C.
1300 Wilson Blvd, Suite 550
Arlington, VA 22209
USA
Tel. (703) 387-7121
Email: sales@mbda-us.com

www.brimstonemissile.com



Brimstone 2 can be operated in two attack modes:

Dual Mode: Semi-Active Laser (SAL) designation with Millimeter Wave Radar (MMW) handoff for targets that are difficult to laser designate, such as fast moving and maneuvering targets and under narrow Rules of Engagement (ROE).

Single Mode: Semi-Active Laser (SAL)-only guidance all the way to the target for stationary and other targets that can be designated by laser effectively.

A previously-developed fire-and-forget, MMW-only mode can also be used with Brimstone 2 via a software role change. This mode provides through-weather targeting, kill box-based discrimination and salvo launch. It is highly effective against multi-target armor formations. Salvo-launched Brimstones self-sort based on firing order, reducing the probability of overkill for increased one-pass lethality.

Brimstone 2 is effective against multiple targets, including cars, motorcycles, trucks, tanks, armored vehicles, enemy combatants, and structures. Effectiveness against FIAC targets has been demonstrated in a number of trials and MBDA continues to develop this capability. Brimstone 2 provides a true multi-role / multi-platform solution for first-pass lethality against the most challenging land and sea-based threats.

Seeker

- Integrated Semi-Active Laser (SAL) and Millimeter Wave (MMW) radar sensors

Modes of Engagement

- Selectable single or dual mode MMW and SAL guidance for precision attack
- MMW-only mode with kill box for "fire-and-forget" salvo launches against swarming threats available via software role change

Navigation & Guidance

- Inertial mid-course navigation and seeker determination for target acquisition
- Terminal phase handover in dual mode from SAL to MMW radar for very high accuracy against moving and maneuvering targets
- Compatible with all STANAG 3733 compliant laser designators

Warhead

- Defeats all known conventional and reactive armor
- Minimal collateral damage in restrictive engagement scenarios
- Insensitive Munitions-compliant

Propulsion

- Strip Steel Laminate Motor Case
- Insensitive Munitions-compliant rocket motor

Name

- Brimstone®2

Missile Characteristics

- Weight: 116lb (52.7kg)
- Length: ~71in (1.8m)
- Diameter: 7in (0.18m)
- Guidance: Millimeter Wave Radar and Semi-Active Laser
- Warhead: Tandem Shaped Charge

