



Stinger

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.



UNCLASSIFIED



Stinger Mission



Mission Statement

Stinger mission is to protect fixed critical assets and Corps/Echelons Above Corps maneuver forces from Unmanned Aircraft Systems, Cruise Missiles, and fixed & rotary wing aircraft.





Stinger System Overview



Characteristics / Description:

FIM 92 Stinger Block I missile, Fourth generation Stinger missile, is an advanced, "fire-and-forget," short-range, man-portable, air defense weapon system. Can be fired from the shoulder or from a variety of platforms to include vehicles, helicopters, and UASs.

Key Capabilities:

- Infrared (IR) and Ultra-Violet (UV) Homing
- Fire and Forget
- Supersonic
- Hit-to-Kill
- Reprogrammable
- Defeats IR Countermeasures
- Short Range
- Multi-Platform Adaptable





Stinger Missile Characteristics



Specifications

Seeker	Passive IR/UV Tracking Fire and Forget 3 to 5 second activation
Speed	Supersonic (Boost-Sustain)
Weight	28 lb/13 kg (Missile and Launch Tube)
Dimension	2.75 in/6.9 cm Diameter 58 in/147 cm Length
Certified Round	No Maintenance Required

Characteristics

- [Two color detector](#) with rosette scan allows the missile to effectively discriminate targets
- [Rosette scan seeker, roll frequency sensor, rolling airframe, and advanced proportional navigation](#) provide hit-to-kill guidance accuracy against a wide range of maneuvering and non-maneuvering targets
- Block I variants use a roll frequency sensor to provide trajectory shaping
- [Hemispherical dome, optics design, and two axis gimbal system](#) provides acquisition and tracking throughout the entire field-of-regard
- [High explosive impact/penetration warhead](#) enhances missile lethality
- [Eject motor](#) ensures a safe separation distance from the soldier or platform before flight motor ignition
- [Boost/sustain flight motor](#) provides and maintains supersonic missile speeds resulting in high maneuver capability and significant kinematic energy at target intercept
- [Fire and forget](#) capability allows the missile to fly to the target without aid from an outside source





Stinger Applications



Air-to-Air Stinger



Ground Based Stinger



Naval Stinger





UNCLASSIFIED

International Stinger Ground Based Air Defense Platforms



Atilgan and Zipkin



Fenek Air Defense Vehicle



Super Vulcan



Vehicle Mounted Stinger Launch Platform





Stinger Summary



- **Fire and Forget Missile**
 - Advanced IR/UV Homing Maximizes Survivability and Firepower
- **Lightweight**
 - Rapidly Deployable Under Any Combat Situation
- **Proven Combat Lethality**
 - Proven Effectiveness Against Fixed Wing, Armored Helicopters, Cruise Missile and UAS/Drone targets in Countermeasure and Clutter Environments
- **Versatile/Multi-Mission**
 - Fully Self-Contained Weapon
 - Weapon System Applications Include Dual Mount Stinger, Light Truck and Armored Vehicle-Mounted, Shipboard and Helicopter Self-Defense

