



Avenger

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Avenger Mission



Mission Statement

Stinger Based Systems (SBS) 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





Avenger System Overview



Characteristics / Description:

Lightweight, highly mobile, short-range, surface-to-air missile and gun weapon system mounted on M1097A1 High Mobility Multi-Purpose Wheeled Vehicle (HMMWV). Employs turret consisting of gunner position, two forward missile launcher pods containing four STINGER missiles each, a Forward Looking Infrared (FLIR), a Laser Ranger Finder (LRF), an Identification Friend or Foe (IFF) system, and a very high rate of fire M3P .50 caliber machine gun.



Key Capabilities:

- Day / Night / Adverse Weather Operations
- Shoot-on-Move
- Slew-to-Cue Rapid Engagement
- Max Stinger Range Capability
- 1500m Machine Gun Range
- Remote Firing Capability (to 50m)
- Air Droppable with Kit
- Air Transportable (C-130+)
- Air Lifiable (UH-60L)
- FAAD C2I Linkage





Avenger Description



Eight Ready-to-Fire *Stinger Missiles* in 2 Pods for Aerial Threats

IFF (Identification Friend Or Foe) to Reduce Fratricide

FLIR (Forward Looking Infrared) For Day/Night Target Acquisition & Magnified Target Identification

.50 CAL. Machine Gun for Close-In Air and Ground Threats

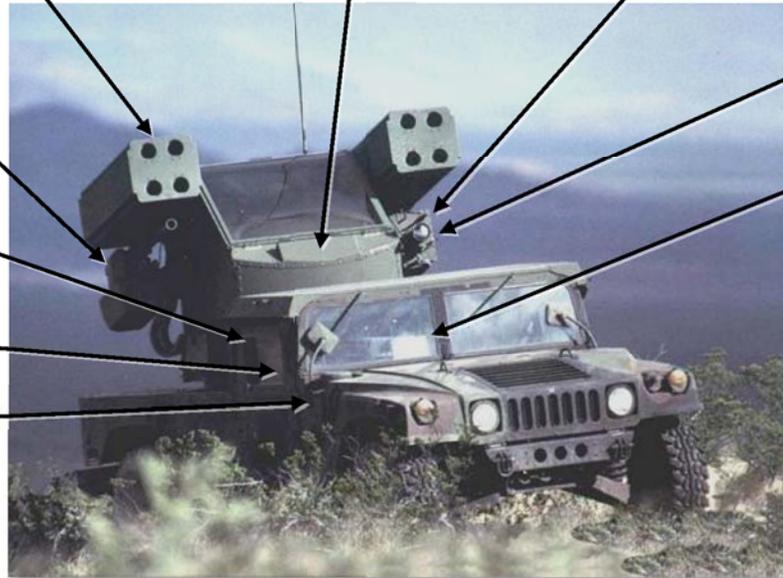
Laser Range Finder (Eye Safe)

2 Man Crew

FAAD C3I Capability Air Battle Situation Display and Messages

M1097 HMMWV (High Mobility Multipurpose Wheeled Vehicle)

Remote Control Unit Can Operate up to 50m from Vehicle



- Capabilities**
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Mission
 Short Range Air Defense for Maneuver Force & Critical Assets
 Defeats UAVs, Cruise Missiles, RW and FW

Light, Lethal, Can Shoot-on-the-Move - Selected Systems Have Slew-to-Cue Capability

The Army's Premiere Short Range Air Defense Night Fighting System





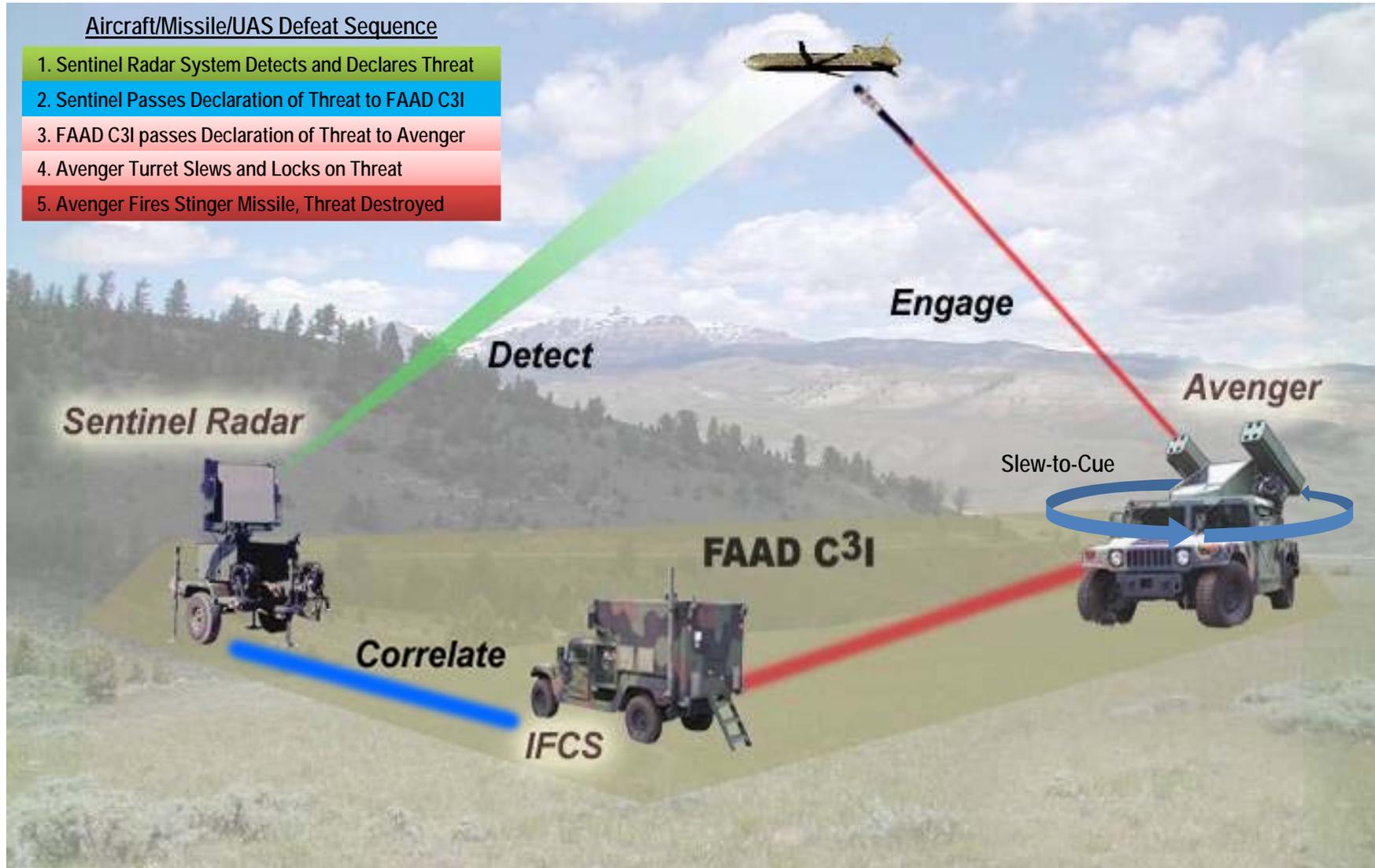
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Slew-to-Cue Operational Concept



Aircraft/Missile/UAS Defeat Sequence

1. Sentinel Radar System Detects and Declares Threat
2. Sentinel Passes Declaration of Threat to FAAD C3I
3. FAAD C3I passes Declaration of Threat to Avenger
4. Avenger Turret Slews and Locks on Threat
5. Avenger Fires Stinger Missile, Threat Destroyed





Avenger Summary



- Fielded Avenger system launch pods house 8 Stinger missiles capable of engaging Unmanned Aircraft Systems (UAS), Cruise Missiles, Fixed Wing and Rotary Wing aircraft
- Avenger provides capability for day/night/adverse weather, shoot-on-the-move operations, and slew-to-cue rapid engagement
- The Avenger system allows flexibility in product improvements and is easily adaptable to multiple missile and vehicle configurations
- Avenger is fielded to U.S. and Foreign Military Sales (FMS) customers and is the Army's premiere short range air defense system

Avenger has over 97% reliability and is combat proven

