

A tan-colored Bradley M7 BFIST SA vehicle is shown in a desert environment. The vehicle is equipped with a turret-mounted machine gun and various sensors. It has a tracked chassis with a front-mounted light. The background features dry, rocky terrain and some green trees.

Bradley M7 BFIST SA

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The M7 Bradley Fire Support Team (BFIST) with Situational Awareness (SA) incorporates a major upgrade in Target Location and Designation while maintaining the capabilities of the M2A2 ODS SA in the areas of lethality, command and control, survivability, sustainability, and mobility.



The M7 BFIST SA provides designation under armor and Target Location Error 90 (TLE90) level target grid coordinates to support precision munition Calls For Fire. An estimated Target Location Error (TLE) is automatically generated and populated in the Call For Fire (CFF) eliminating the need for manual target grid refinement.

The M7 BFIST SA maintains the battlefield signature, mobility, and survivability of the M2A2 ODS SA. The 25mm cannon and 7.62mm coax machine gun provide defensive capability.

Target Location – The integrated Fire Support Sensor System provides target location range of up to 20km. Target designation is performed under armor. The M7

BFIST SA produces TLE90 target grid coordinates and estimated TLE values automatically populated into a digital CFF message.

Lethality – Improved Bradley Acquisition System (IBAS) enhances lethality. The Bushmaster 25mm cannon fires both explosive and armor piercing rounds.

Mobility – Increased driver field of view aids maneuverability in close-in, urban combat. The Driver's Vision Enhancer (DVE) provides greater maneuverability in adverse conditions.

Survivability – Enhanced armor protection including roof fragmentation protection, underbelly armor, energy attenuating seats, crew ventilated Nuclear, Biological, and Chemical (NBC) face piece

connections, and mounts for armor tiles to provide additional protection against shaped-charge munitions.

Sustainability – Digital architecture allows embedded diagnostics for improved logistics support.

Command and Control – Digital Call for Fire through Forward Observer System (FOS) hosted on Mounted Family of Computer Systems (MFoCS), Joint Battle Command – Platform (JBC-P) hosted on MFoCS, digital communications, Commander's Smart Display (CSD), and Squad Leader's Smart Display (SLSD).

Networkability – Network connectivity and Beyond Line of Sight (BLoS) capability through digital satellite communications on the Blue Force Tracker 2 network with a Platform Encryption Device (PED).

Specifications

Combat loaded vehicle weight	72,300 lbs
Personnel capacity	4
Engine	600hp
Fuel Tank	155 gallons
Speed	38 mph
Cruising range	250 miles
Turning radius	Pivot to infinite
Slope	60%
Side slope	40%
Trench crossing	100 inches
Vertical wall obstacle	30 inches
Overall length	258 inches
Width	131 inches
Height	120.39 inches
Ground clearance	15 inches

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