

BRIGADE COMBAT TEAM
INTERIM ARMORED VEHICLE



TM

ATGM ANTI-TANK GUIDED MISSILE

The ATGM variant fires the brigade's heavy anti-tank missiles to destroy high value threat targets at extended ranges in order to defeat enemy armor before the enemy can return effective fire.



ICV INFANTRY CARRIER VEHICLE

The ICV provides protected transport for an infantry squad and direct fire support during the dismounted assault. The ICV carries a 9-man squad and retains the capability to provide effective supporting fire to the squad while it is dismounted.

MC MORTAR CARRIER

The MC provides accurate and lethal high angle fire to support operations in complex terrain and urban environments. The MC accommodates a 120mm mortar system that fires a full family of mortar ammunition (HE, illumination, IR illumination, smoke, precision guided, and Dual Purpose Improve Conventional Munitions (DPICM)) while mounted.



MISSION CAPABILITY

Carries 9-man infantry squad and crew of 2
Kongsberg remote weapon station with M2 .50 cal MG or MK19 40mm
Javelin missiles

SURVIVABILITY

High hard steel structure
MEXAS ceramic layer
Spall liner
IBD passive RPG add-on

MOBILITY

60 mph top speed
9 sec 50m dash
78 in gap crossing
23 in vertical climb
330 mile cruising range est.
53 gal fuel capacity

IAV COMMON GFE/ASIOE

FBCB2
EPLRS
GPS
TWS-H

CV COMMANDER'S VEHICLE

The CV provides an operational platform for elements of command within the BCT. The CV integrates the C4ISR equipment for the unit commanders. It has the ability to access aircraft power and antenna systems to plan missions while enroute aboard aircraft.



MEV MEDICAL EVACUATION VEHICLE

The MEV is the primary ambulance platform. The MEV provides the mounting capability to transport four (4) patients on standard NATO litters, or (6) ambulatory patients, in addition to an ambulance team of three.



The MEV provides protection for the patient and medical team and enhances the medical care in a protected environment with adequate lighting and accessible medical equipment. The MEV provides essential force health protection and supports the Army's commitment to the safety and survivability of the soldier.



MGS MOBILE GUN SYSTEM

The MGS provides rapid and lethal direct fire to support assaulting infantry, and destroy enemy vehicles, equipment and hardened enemy positions. The MGS is the key weapons overmatch platform to ensure mission success and survivability of the BCT.

MISSION CAPABILITY

Low profile turret
M68A1 105mm cannon w/autoloader
Coax 7.62mm, Secondary CDR's MG
Full solution fire control, 2 axis stabilization

MOBILITY

60 mph top speed
9 sec 50m dash
78 in gap crossing
23 in vertical climb
330 mile cruising range
53 gal fuel capacity

SURVIVABILITY

High hard steel structure
MEXAS ceramic layer
Kevlar spall liner
IBD passive RPG add-on

MGS SPECIFIC GFE/ASIOE

M68A1
ELRF

FSV

FIRE SUPPORT VEHICLE

The FSV provides enhanced surveillance, target acquisition, target identification, target designation, and communications supporting the BCT with "first round" fire-for-effect capability. It integrates the current M707 Striker Mission Equipment Package. The FSV provides the Fire Support Teams (FIST) with the capability to automate command and control functions, to perform fire support planning, directing, controlling and cross-functional area coordination, and execution.



RV

RECONNAISSANCE VEHICLE

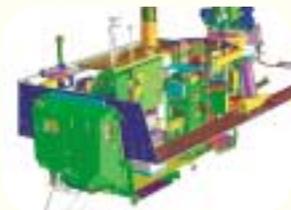
The RV provides an effective platform for RSTA Squadrons and battalion scouts to perform reconnaissance and surveillance operations. The RV is the key enabler for both sensor and HUMINT focused surveillance and intelligence operations. The RV accommodates a squad of six and an additional augmentee, for a total vehicle capacity of seven personnel.



NBC RV

NBC RECONNAISSANCE VEHICLE

The NBC RV provides NBC situational awareness to increase the combat power of the BCT. The core of the NBC RV is its on-board integrated NBC sensor suite and integrated meteorological system. An NBC positive overpressure system that minimizes cross-contamination of samples and detection instruments, provides crew protection, and allows extended operations at MOPP 0.



ESV

ENGINEER SQUAD VEHICLE

The ESV provides the Engineer Squad with highly mobile, protected transport to decisive locations on the battlefield to provide the required mobility and limited counter mobility support to the BCT. Integrated into the ESV are current obstacle neutralization and lane marking systems and mine detection devices.



“We must provide early entry forces that can operate jointly, without access to fixed forward bases, but we still need the power to slug it out and win decisively.”

This was the challenge given by General Shinseki. The response was Brigade Combat Team (BCT) and the Interim Armored Vehicle (IAV): The “Vanguard for Army Transformation”.



The Army’s responsibility to satisfy 21st century requirements for an effective full spectrum force demands improved capabilities. Rapid deployment of highly integrated, combined-arms forces is required. They must possess overmatching capabilities, exploiting the power of information and human potential, all while combining the advantages of both light and mechanized forces. They must operate across the full range of military and other-than-military operations. To meet all these requirements, the IAV becomes the first new armored vehicle that the Army has acquired in 18 years.

The Joint Venture Team of General Motors Defense and General Dynamics Land Systems Defense Group LLC produces the IAV. The IAV is powered by a 350 hp diesel engine, runs on eight wheels that feature run flat capability and a central tire inflation system and incorporates a vehicle height management system. The IAV (less the MGS, ATGM and MEV) is armed with a remote weapons station that supports the M2 50 caliber machine gun or the MK19 automatic grenade launcher, the M6 countermeasure device (smoke grenade launcher) and an integrated thermal weapons sight. The IAV also supports communications suites that integrate the SINCGARS radio family; EPLRS, FBCB2, GPS, HF and NTDR radio systems. The IAV provides up to 14.5 ballistic protection.

The primary design of the IAV has two variants: The Infantry Carrier Vehicle (ICV) and the Mobile Gun System (MGS). The ICV troop transport vehicle is capable of carrying 9 infantry soldiers and their equipment. It requires a crew of two; a driver and a vehicle commander. The MGS will be based on the ICV, but modified to incorporate a 105mm turreted gun and autoloader system and a crew of three. There are eight other configurations of the ICV that have combat service and combat support roles. Those configurations include a Commander’s Vehicle (CV), Reconnaissance Vehicle (RV), Fire Support Vehicle (FSV), Mortar Carrier (MC), Anti-Tank Guided Missile vehicle (ATGM), Engineer Squad Vehicle (ESV), Medical Evacuation Vehicle (MEV), and Nuclear, Biological and Chemical Reconnaissance Vehicle (NBC RV).



A General Motors General Dynamics Land Systems Joint Venture