



Drivers Integrated Terrain View
Helmet Mounted Slaved Operation

Mobile TIPSS visually covers a vast area in little time utilizing an all weather stabilized thermal imager mounted atop a telescoping quick mast, providing a continuous ability to track direction and distance. While underway and with the imager nested, stabilized operations continue in the driver's slaved mode. The driver's helmet-slaved viewing of the terrain allows for enhanced viewing of the road ahead and correction of the graphical display of a moving topographical overlay to achieve same visual orientation.

The on-the-move benefit is achieved by an image stabilization capability that surgically guides munitions on target, as well as identifying changes in an ever evolving / ever moving battlefield environment. (Enhanced target identification)

Each Mobile TIPSS unit contributes to an overall hive network of awareness. These units are upgradeable and reconfigurable by modular design and able to link-up with as many additional units as needed, and in doing so each unit input paints a more defined aspect of the digital battlefield.



This cross sharing of intelligence minimizes risk by sharing situational awareness. The worker-bee method of shared intelligence is safeguarded by a biometric failsafe feature. This capability offers digital mapping and memory upgrade needed to communicate seamless real-time changes of the battlefield. This hive capability additionally adds to the overall common operating picture and is a direct contributor to the FBCB2 picture for commanders and down to operating units through an enhanced Blue Force Tracking aid.

Careful consideration to utilize non-developmental items (NDI's) has been the primary project goal. The project focus has been on utilizing commercial and government off-the-shelf components to reduce project costs and provide the end customer a scalable vehicle platform to build upon. From the ground-up the Mobile TIPSS project utilizes many aspects of existing systems. The MRAP program has developed an independent suspension and planetary steerable axle systems as well as L-ROD armor, vibration dampeners, shock mitigation seating and more.

Mobile TIPSS falls within the HMMWV overall vehicle footprint. Its extended capacity design and superior suspension offers greater weight limitations, a higher level of ballistic protection and increased mission operational capacity. These expanded operational features present a platform that can be utilized for a multitude of applications ranging from a Combat Tactical Variant, a Command and Control Variant, a Utility Variant, a Light Infantry Squad Carrier Variant, a Reconnaissance Variant, Ambulance Variant as well as NLOS & NetFires Variants.