

Soldier Mobility and Targeting

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ABSTRACT

This paper describes the Soldier Mobility and Targeting System program being conducted at the U.S. Army Night Vision and Electronic Sensors Directorate. The Soldier Mobility and Targeting System program is intended provide soldiers with a versatile thermal imaging capability that is lightweight, low volume, and low power. The Soldier Mobility and Targeting System is a modular system concept comprised of a helmet mounted mobility sensor, weapon mounted targeting sensor, a soldier control interface, and a power source (batteries). The Soldier Mobility and Targeting System will have the ability to display either the helmet mounted mobility sensor or the weapon mounted targeting sensor on a helmet-mounted display. The helmet mounted mobility sensor will be comprised of an uncooled thermal imager and a Vis/NIR imager fused together for display. The Soldier Mobility and Targeting System helmet mounted mobility sensor will provide the capability of seeing an IR Laser aiming light and/or illuminator along with the thermal image. The weapon sensor will be mounted and boresighted to the weapon for target acquisition/engagement; in addition to the ability of being viewed in the Head Mounted Display (HMD), it will also have a display for conventional use. The soldier can be provided with a thermal imaging sensor as an 18 inch folding system for reconnaissance and surveillance; and used as a covert over barrier assistant, the remote image can be displayed on the helmet-mounted display or with a separate, integral display. The these systems have the growth potential for interfacing with other U.S. Army programs to include Future Force Warrior, where existing displays and sensors can be used as a baseline.



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