



PLATFORM INTEGRATION

SABRE-HD Surveillancend Battlefield Reconnaissance Equipment - High Definition

Not A Sensor System . . . But A System For Any Sensors

Leonardo DRS' SABRE-HD (Surveillance and Battlefield Reconnaissance Equipment - High Definition) is a state-of-the-art ground vehicle mission equipment package combining full-spectrum reconnaissance, surveillance, and precision fires targeting capability with world-class stabilization, elevation, and integrated network capabilities. SABRE-HD is not a sensor system, but a "system for any sensor." It incorporates a highly modular sensor suite that integrates different types of radar, day and thermal imagers, and laser systems. It then fully optimizes the combined performance of these sensors by mounting them on a highly stabilized and ruggedized gimbal and mast and connects them with any type of battle command network. This potent combination provides scouts, forward observers, and tactical air controllers with the ability perform reconnaissance and targeting at extended ranges, to slew from sensor to

sensor, to operate while in defilade or on the move in rugged environments, and to share precision fires and Counter Unmanned Aerial Systems targeting data across battle command networks.

In 2015 SABRE-HD was chosen as the solution for the Canadian Army's Light Armoured Vehicle 6.0 Reconnaissance: Surveillance System (LRSS) program. For the program Leonardo DRS updated its Surveillance and Battlefield Reconnaissance Equipment system (SABRE), which it successfully fielded to the Australian Army in 2013.



HIGHLIGHTS

- Provision for multiple day/night, high-definition, electro-optic, laser, and RF/radar-based sensors with integral “slew-to cue” target hand-off functionality
- Includes ability to accommodate: Mid Wave Infrared, Long Wave Infrared, Short Wave Infrared, 3rd Generation Infrared; Laser Range Finder; Laser Pointer; Laser Designator; Doppler RADAR; Active Electronically Scanned Array (AESA) RADAR
- Highly stabilized, remotely operated sensor suite enabling system operation under armor and on-the-move (OTM)
- Gimbal stabilization facilitates long range target acquisition through narrow fields of view, as well as laser target designation or laser pointer (if chosen) at extended ranges
- Elevated, mast-mounted (up to 10 meters) or roof-mounted sensor suite allows surveillance under full platform defilade
- Precise, jam-resistant GPS/INS navigation and far target location
- Modular sensor pod integration simplifies removal and re-attachment for both mounted and dismounted surveillance and targeting operations (up to 200 meters)
- High-resolution Operator’s Display provides an exceptional level of target acquisition D/R/I (Detection, Recognition, and Identification) performance

PERFORMANCE SPECIFICATIONS

Nominal Total System Weight:	300 - 650 kg*
Nominal Weight-on-Mast:	120 - 160 kg*
Nominal System Power Required:	<980W / 35 AMP
Silent Watch Current Draw:	<28 AMP
Targeting Circular Error Probable (CEP):	<10m CEP @ 10 KM (Stationary, Elevated, Dismounted, or OTM)
MIL-STD-810 (ENV) and MIL-STD-461 (EMI/EMC) tested and qualified	

* (Depending on configuration)



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