



PLATFORM INTEGRATION

TUA Targeting Under Armor

Targeting Under Armor... Stabilized... On The Move... On Any Platform

Leonardo DRS is the prime system developer and integrator for the M1200 Armored Knight. Its mission is to provide precision far-target location and laser target designation for both artillery and precision-guided munitions to achieve first-shot target lethality. Armored Knight is in production and being fielded to all U.S. Army Active and National Guard Heavy Brigade Combat Teams, Infantry Brigade Combat Teams, and Battlefield Surveillance Brigades.

Leonardo DRS integrates and stabilizes the Armored Knight Mission Equipment Package on a turret allowing Targeting Under Armor (TUA) and on the move. The TUA upgrade integrates the Common Remote Stabilized Sensor System (CRS3), the M153 Remote Weapon System (RWS)

and additional unique fire support equipment on a single synchronized turret.

CRS3 is the key breakout technology from Armored Knight TUA that significantly improves the lethality and force protection of US Army warfighters undertaking mounted sensor missions. CRS3 offers an approach to TUA that is low-cost, low integration burden, technologically mature, extends the value and capability of the Army's existing sensor, is flexible across applications and platforms, and is capable of significant future upgrade.

 **LEONARDO DRS**

HIGHLIGHTS

- CRS3 augments Long Range Advanced Scout Surveillance/Fire Support Sensor System (LRAS3/FS3) sensors currently mounted on US Army fire support and scout platforms
- CRS3 crew operates the sensor and weapon under full armor protection while on the move
- CRS3 can be used alone or integrated with an RWS and motion-harmonized turret providing concurrent and independent operation with a 360° field of view
- Enhances sensors already owned by the Army that are vehicle mounted, but not stabilized
- “Slew to Cue” capability between CRS3, RWS, Future Battle Command Brigade and Below (FBCB2)
- CRS3 accommodates next generation sensors



TUA SCOUT AND FIRES BOLT ON KIT

Leonardo DRS has leveraged the investment put into Armored Knight TUA, its decades of platform-sensor integration experience, and its tradition of vehicle flexibility to develop the CRS3 into a TUA bolt-on kit applicable across Heavy, Stryker, and Infantry Brigade Combat Teams and Battlefield Surveillance Brigades.

This further reduced the weight, space claim, and power draw of the system while making it “kit-able” on a number of vehicles in hours, leaving its core capabilities intact, and retaining the architecture for added capabilities. The CRS3 Stabilized Sensor Mount (SSM) provides a stabilized platform for the LRAS3/FS3 allowing operation within the vehicle and a 360° continuous operation on the move. The operator now remains seated at a control and observation station. All other aspects of the system remain intact with this enhancement.

Leonardo DRS has obtained feedback on the CRS3 kit design from several Stryker reconnaissance units. This feedback has enabled DRS to enhance the kit to be more user-friendly and compatible with the Stryker Infantry Carrier (including Double V Hull variant), as well as the Reconnaissance and Fire Support variants. Leonardo DRS has also demonstrated CRS3 on the MRAP-All Terrain Vehicle (M-ATV) and received strong interest in this configuration as a potential reconnaissance vehicle for other Army combat formations. In addition, Leonardo DRS is integrating CRS3 on an MRAP Mobile Command Post as part of the ongoing Network Integration Evaluation program; has mounted CRS3 on the Armored Security Vehicle (ASV); and is planning to expand this integration effort to other suitable reconnaissance or fire support platforms in the future.



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