



# Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS)

The Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS) provides a persistent Airborne Intelligence, Surveillance and Reconnaissance capability to detect, locate, classify, identify and track surface targets with a high degree of timeliness and accuracy during the day, night and nearly all weather conditions. It enhances brigade combat team effectiveness by defining and assessing the communications environment and providing surveillance, targeting support and threat warning.

EMARSS has four variants. The EMARSS-S conducts Signals Intelligence (SIGINT) with Broad Spectrum Signals Intelligence and High Definition (HD) Full Motion Video (FMV) capabilities. The EMARSS-G gathers Geospatial intelligence with Wide Area Aerial Surveillance, Light Detection and Ranging, and HD FMV. EMARSS-M is a Multi-intelligence platform with SIGINT and HD FMV capabilities and the EMARSS-V is equipped with the Vehicle and Dismount Exploitation Radar capable of vehicle and dismount moving target indication along with SIGINT and HD FMV capabilities.

EMARSS contains a tailored set of Distributed Common Ground System – Army (DCGS-A) enabled software intelligence, surveillance and reconnaissance functionalities to process, exploit and rapidly disseminate the intelligence derived from the sensor capabilities. Selected EMARSS intelligence data is immediately processed on the aircraft and forwarded to DCGS-A for further processing, analysis and reporting. EMARSS complies with the DoD Information Technology Standards Registry and Defense Information Systems Network. This architecture enables interoperability with any multi-service or joint system that complies with DoD standard formats for data transfer and dissemination.

EMARSS enables the Aerial Exploitation Battalions within the Intelligence and Security Command to provide command and control, mission planning, sustainment support and deployment packages to facilitate worldwide missions in accordance with standard Joint and Army tasking processes.



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