



Review of Mission System for Air Launched Effects

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Abstract:

This article is about Mission System for Air Launched Effects. It is developed by Collins Aerospace.

Collins Aerospace:

Collins Aerospace is a United States based defence and aerospace based Products Company. It is a Raytheon Technologies Subsidiary.

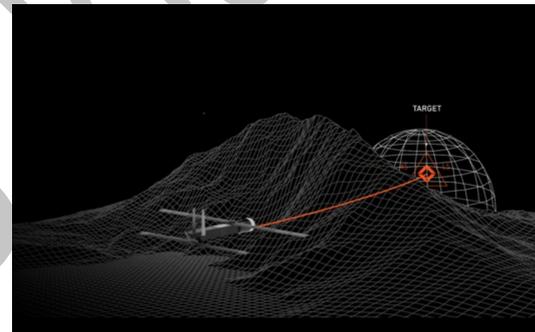
Air Launched Effects:

Air launched effects or ALE are changing the way our war fighters integrate with the battle space through advanced detection, identification, location and reporting of enemy threats across the battle space. They have the power to dramatically increase the survivability of air vehicles and their crews by providing real time actionable intelligence.

ALE are a critical part of what makes the future vertical lift platform so effective against complex near pier threats but to deliver these next generation reconnaissance capabilities.

ALE need an intelligent on board mission system that can receive data from both platform and payload sensors and combine it all into a cohesive message.

The ALE enables to rapidly connect to the modern battle space while ensuring future proof operations designed with their commitment to open solutions in mind.

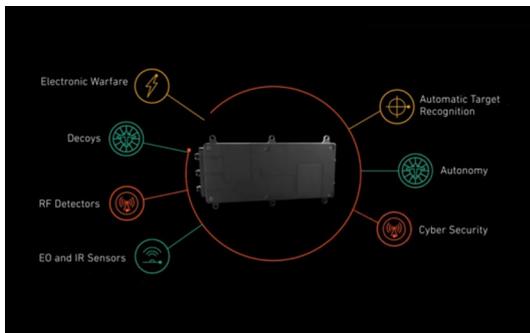


*Minimize exposure to terrain hazards,
Credits: Collins Aerospace*

The Collins ALE mission system allows for seamless integration of third party applications and new technologies, greatly enhancing the battlefield relevance and long term sustainment of ales by providing secured data links in both single ship and multi ship scenarios. Our system ensure reliable connectivity and autonomy in high contested



environments and by using advanced proven algorithms it enables ale solutions to minimize exposure to terrain hazards and threats as it determines the best route and flight patterns for ensuring first pass mission success.



ALE Mission System, Credits: Collins Aerospace

Its open standard and high adaptability for multiple classes of air vehicles and mission payloads.

Conclusion:

The Collins ALE mission system can support a range of technologies including electronic warfare, decoys, RF detectors, EO and IO sensors, Automatic target recognition, autonomy, cyber security and much more for decades.