

# DSEI 2017: T-REX makes an entrance into C-UAS

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Orbital ATK has unveiled its Tactical Robotic Exterminator (T-REX) counter-unmanned aerial system (C-UAS) concept at DSEI in London.

The T-REX concept, displayed in a scale-model form factor at [DSEI in London](#), has been designed for a US Department of Defense (DoD) urgent operational requirement to provide a mobile C-UAS solution integrated on board infantry and armoured fighting vehicles.



Orbital ATK's T-REX concept comprises the integration of the Liteye mast-mounted C-UAS solution on board a Stryker vehicle with networked M230LF 30mm cannon.

Speaking to *Shephard*, Orbital ATK's Senior Business Development Manager for Armament Systems, Jeffrey Tipton, described how the T-REX would be demonstrated for the first-time next week in the US with the DoD's Program Director for Counter-Rockets, Artillery and Mortars (PD C-RAM) expected to announce a contract sometime between January and March next year.

PD C-RAM is understood to be considering the procurement of ten C-UAS systems and with ten accompanying weapon systems for immediate integration and deployment into theatres, providing force protection for coalition troops with options for both kinetic and non-kinetic effectors.

The Liteye C-UAS solution comprises a variant of the Anti UAV Defence System (AUDS) developed by Chess Dynamics, Blighter Surveillance and Enterprise Control Systems.

The holistic solution incorporates the Blighter A400 Series Air Security Radar; Hawkeye DS and Electro-Optical Video Tracker; and Directional RF Inhibitor, providing a capability to identify, track and disrupt UAS employed by enemy forces across the battlefield.

'Our new Liteye C-UAS system is designed to detect, track and defeat UAS engaged in hostile airborne surveillance and potentially malicious activity,' company literature explained. '

Industry sources explained to *Shephard* that undisclosed numbers of mast-mounted AUDS systems have already been deployed to the Middle East in support of coalition operations against the self-proclaimed Islamic State (IS). This has included mobile solutions mounted on FMTV protected vehicles.

However, this latest effort by the DoD will see the C-UAS system mounted on a fighting vehicle for the first time.

Additionally, Orbital ATK has started the development of a proximity fuse 30mm round, designed to specifically support C-UAS fire missions, Tipton added. Once networked to the C-UAS, it is envisioned that the 30mm cannon will fire three to five round bursts of fire in order to effectively neutralise target UASs.

Also involved in the development of T-REX is EOS, which is working on the integration of the 30mm cannon remote weapon station towards the front end of the vehicle; as well as Pratt & Miller which has upgraded the suspension system of the Stryker IFV to support carriage of the 1,000lb mast-mounted C-UAS solution, which is fixed to the rear of the vehicle.