

Merlin



Long-Range C-UAS Detect and Defeat System

For the U.S. military, its allies, and law enforcement, the proliferation of inexpensive drones represents the most extreme threat to personnel and infrastructure since the invention of air power. Merlin effectively combats these evolving, sophisticated threats by providing extended long-range threat awareness and swift, automated, non-kinetic response capabilities.

Full spectrum automated detect and defeat

- 24/7 automated sensing
- Non-kinetic low collateral defeat
- Exceptional coverage of the electromagnetic spectrum
- Detection and defeat of drones operating over the local cellular network
- Addresses group 1-3 threats

For more information about CACI's C-UxS technology suite, please contact: cuxs@caci.com

For more information about our expertise and technology, visit: www.caci.com/CUXS

The world's largest collection of threat signals

The key to stopping adversarial UxS is finding the threat that hides in the noise. CACI maintains the most comprehensive collection of threat data in the world, with more than 1,000 unique global UxS signatures countered. Merlin leverages this data, integrating RF, radar, and EO/IR sensors and effectors to automatically detect and defeat Group 1–3 UAS within seconds from as far as 75 km – a record-breaking range.



Interoperable	Merlin is interoperable with existing U.S. Government C2 and security systems, providing a layered C-UxS defense.
Remote	Merlin operates autonomously 24/7 at various classification levels from any location.
Software-defined	Merlin's software-defined architecture enables the rapid integration of new C-UxS capabilities, receiving system and threat updates over the air to stay ahead of constantly evolving threats.
Adaptable	Merlin supports both passive and active UxS threat detection.

SEARCH/TRACK/IDENTIFY
RF/line of site C2 link Detect range: ~75 km, 360° coverage; 200 MHz – 8 GHz with no band-breaks; COTS and non-COTS UAS (Group 1–3)
RF/cellular C2 link Detect range: ~15km; 4G and 5G capable; protocol tracking without user data analysis
Option: Active radar Detect and track range: ~25 km; Tip and cue to EO/IR system; provides target position for drone capture; dark drone detection
Option: EO/IR Camera Detect range: ~5–7 km; integrated ATR for drone detect, track, ID; dark drone detection

LOW COLLATERAL DEFEAT
RF/LOS C2 link defeat Effective range: ~75 km (150–1,500W); symbolic AI – automated sense and shoot algorithms; agnostic jam >> smart jam >> command inject (crash, graveyard, change waypoint, etc.)
RF/cellular defeat Effective range: ~15 km; intelligent, “in-protocol” defeats; temporary, semi-persistent, and cyber-enabling effects; minimizes impact to network/subscribers
Option: Drone capture Effective range: 3–6 km; capture and disposal of targets <55 lbs at high speeds; ~4sec from cueing to launch; autonomous engagements; reusable after reloading net entanglement system



EXPERTISE and TECHNOLOGY
for National Security

At CACI International Inc (NYSE: CACI), our 25,000 talented and dynamic employees are ever vigilant in delivering distinctive expertise and differentiated technology to meet our customers’ greatest challenges in national security. We are a company of good character, relentless innovation, and long-standing excellence. Our culture drives our success and earns us recognition as a *Fortune* World's Most Admired Company. CACI is a member of the *Fortune* 500 Largest Companies, the Russell 1000 Index, and the S&P MidCap 400 Index. For more information, visit us at www.caci.com.

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