SILENT ARCHER® COUNTER-UAS TECHNOLOGY

Detection, tracking, classification, identification and disruption of low, slow and small aircraft at the tactical edge

SRC's *Silent Archer®* technology delivers a complete counter-unmanned aircraft system (counter-UAS) solution designed for critical defense and security applications. It comprises radar, electronic warfare (EW), direction finding, camera and user display to detect, track, classify, identify and disrupt groups 1-5 UAS, whether a lone target or UAS swarm.

In 2005, SRC recognized the emerging threat posed by UAS and began developing counter-UAS technology. Years later, when the U.S. Army had an urgent requirement to detect and defeat UAS, SRC's proven integrated counter-UAS technology was ready and became the Army's solution of choice. Since that time SRC's counter-UAS technology has been fielded by both the U.S. Army and Air Force to help protect soldiers against UAS threats.

APPLICATIONS

- Counter-UAS
- Critical infrastructure protection
- Defense against groups 1-5 UAS, fixed wing and rotary wing aircraft
- Force protection in contested environments while on-the-move
- Short Range Air Defense (SHORAD)
- Maneuver-SHORAD (M-SHORAD)
- Very-SHORAD (V-SHORAD)
- VIP Protection

THE SILENT ARCHER TECHNOLOGY PROVIDES COUNTER-UAS AND M-SHORAD PROTECTION IN CONTESTED ENVIRONMENTS

DETECT

The *Silent Archer* technology's air surveillance radar, electronic warfare and direction finding systems scan the airspace for low, slow and small (LSS) airborne targets, collecting 3-D target location, radio frequency signatures across bands A/B/C, and other intelligence. Together, these systems accurately detect, track and identify UAS in the surrounding airspace.

DECIDE

Combining radar signature data and electronic surveillance information, the *Silent Archer* system can positively identify UAS targets. Identification can be enhanced using an electro-optical/infrared (EO/IR) camera. With visual and spectrum identification confirmed, the operator can confidently decide on which actions to take against the threat.

DEFEAT

Once a UAS has been identified as hostile, the operator has the option of engaging with various low-cost, low-risk EW effects, like interrupting UAS communication links, causing the craft to return to its base station or perform an emergency landing. The *Silent Archer* system is just as effective against UAS swarms as it is against individual UAS. If electronic defeat methods prove insufficient, the *Silent Archer* system can cue kinetic or directed energy weapon systems to defeat the threat.

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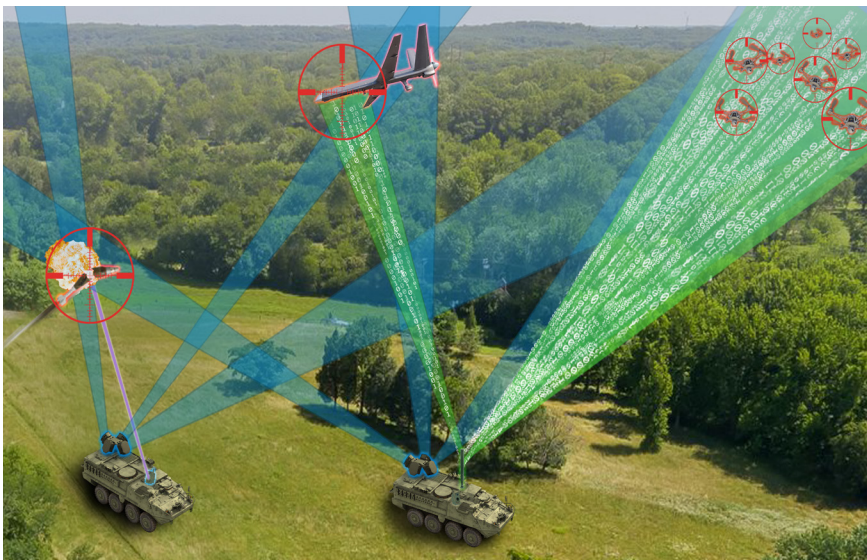
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SILENT ARCHER TECHNOLOGY COMPONENTS

Air Surveillance Radar

- AN/TPQ-50
- AN/TPQ-49A
- Gryphon R1410 Radar
- Precision Fire Control Radar

Electronic Warfare System

- *Protean*™ Multi-Mission RF Suite of Systems
- *Silent Resolve*® Navigation Warfare (NAVWAR) System
- SRC5986E Rugged Micro-Transceiver
- ANCILE™ by Allen-Vanguard
- Other (please inquire)

Direction Finding Unit

- *Whisper Hunter*® Direction Finding Unit
- TCI Model 280 System
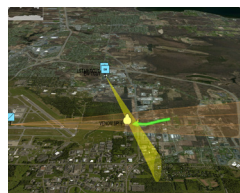- Other (please inquire)

EO/IR Camera

- SRC Counter-UAS Camera System
- Other (please inquire)

User Display

- SRC 3-D User Display
- Other (please inquire)

FEATURES

➤ **Frequency Surveillance**
EW, NAVWAR and direction finding technology can passively detect, identify and disrupt communication and control signals across bands A/B/C

➤ **Spatial Surveillance**
Radar technology detects, identifies and tracks low, slow and small airborne targets

➤ **Optical Surveillance**
EO/IR camera tracks and provides visual identification

➤ **User Display**
C2 system delivers situational awareness for informed decision making

BENEFITS

➤ **Efficient**
EW techniques can disrupt individual UAS and swarms at a very low cost per engagement

➤ **Configurable**
Fixed-site, on-the-move or fly-away kit configurations

➤ **Rugged**
For deployment in a broad range of operational environments

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