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 signature, 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.
**SILENT ARCHER TECHNOLOGY COMPONENTS**

**Air Surveillance Radar**
- AN/TPQ-50 with LSTAR Air Surveillance Software
- AN/TPQ-49A with LSTAR Air Surveillance Software
- Gryphon R1410 Multi-Mission Radar
- Precision Fire Control Radar
- SkyChaser® On-the-Move Radar

**Electronic Warfare System**
- *Silent Thunder™* Multi-Mission EW System
- SRC5986E Rugged Micro-Transceiver
- ANCILE™ by Allen-Vanguard
- Other (please inquire)

**Direction Finding Unit**
- *Whisper Hunter™* Direction Finding Unit
- Gryphon S1200 Spectrum Sensor
- TCI Model 280 System
- Other (please inquire)

**EO/IR Camera**
- Counter-UAS Camera System
- Other (please inquire)

**User Display**
- SRC 3-D User Display
- Gryphon SAMI Display
- Other (please inquire)

**FEATURES**

- **Frequency Surveillance**
  EW and direction finding technology can passively detect, identify and disrupt communication and control signals

- **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