LITEYE

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FACT SHEET

AUDS® (Counter - UAS system)

AUDS
(shown with Blighter A422 radar with W20S antennas)

AUDS, (Counter-UAS System), is designed to detect, track, identify, and defeat Unmanned Aerial Systems (also called UAVs) engaged in hostile airborne surveillance and potentially malicious activity. AUDS is TRL-9 system, and deployed with US military

The AUDS system combines electronic-scanning radar target detection, electro-optical (EO) tracking/classification and directional RF inhibition capability.

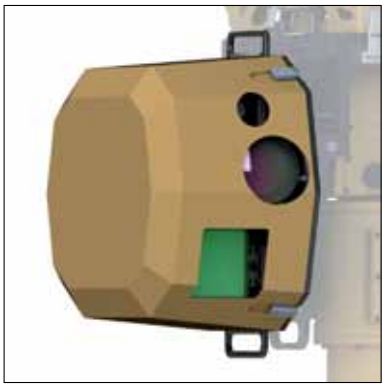
AUDS is a smart-sensor and effector package capable of remotely detecting small UAS and then tracking and classifying them before providing the option to disrupt their activity. The system may be used in remote or urban areas to prevent UASs being used for terrorist attacks, espionage or other malicious activities against sites with critical infrastructure. AUDS not only works to cover your airspace, but also as a ground surveillance system as well.

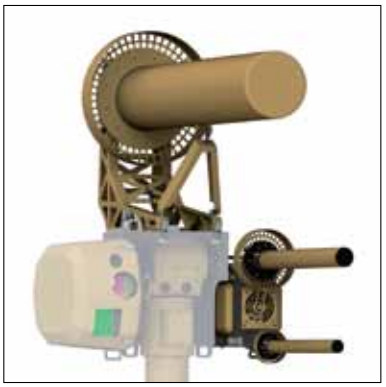
AUDS Team

The AUDS team brings together three leading British companies, along with Liteye, a US defense manufacture, to provide a truly standalone solution to the rogue UAS problem.

Blighter's A400 series air security radars are able to DETECT small UASs in all weather conditions, 24 hours a day flying in urban areas or near to the horizon. The Chess Dynamics Hawkeye Deployable System (DS) and EO Video Tracker, featuring both a long range colour camera and a high sensitivity Thermal Imager (TI), along with state-of-the-art video tracking technology, is able to TRACK the UAS and, combined with radar target information, classify the target. The operator is then able to make a timely and informed decision to use the Enterprise Control Systems ('ECS'), smart RF inhibitor to selectively interfere with the C2 channels on the UAS allowing the system to DISRUPT the UAS's mission. The smart RF inhibitor uses directional antennas to achieve maximum range of operation with minimum collateral effect.
All brought together in USA by Liteye Systems, who manufactures integrates, installs, and trains operators out of their Colorado facility.

Specification





The Radar...

Blighter A400 Series Air Security Radar

- Detection range: 8 km
- Minimum target size (RCS): 0.01 m^2
- Frequency band: Ku-band
- Radar type: E-scan Frequency Modulated Continuous Wave (FMCW) Doppler Surveillance Radar
- Power output: 4 Watt
- Azimuth coverage: 180° (standard) or 360° (optional)
- Elevation coverage: 10° (M10S antennas) or 20° (W20S antennas)
- Elevation adjustment: +/-40° using optional Blighter Radar Tilting System (BRTS)

The EO package...

Hawkeye DS and EO Video Tracker

- Viper Dynamic Positioner:
  - Azimuth: Continuous
  - Elevation: -50° to +60°
  - Max speed: 60° per second
- Piranha 46 HR Camera:
  - Type: Colour HD 2.3 MP
  - Optical zoom: x30
  - Digital zoom: x12
  - Focus: Auto
- Thermal Camera:
  - Type: Gen 3 Cooled
  - Resolution: 640 x 512 pixel
  - Wavelength: 3 to 5 µm
  - Zoom: 24° to 1.8° FOV
- EO Video Tracker:
  - Type: Vision4ce digital video tracker and detector
- Optical Disruptor (Option):
  - Type: 1.4° high intensity beam

The Defeat...

Directional RF Inhibitor

- High gain quad-band antenna system
- Disruption/inhibition delivers operational effect
- Custom inhibition waveforms specific to the threat
- Covers GNSS frequencies
- Software defined intelligent RF inhibition
- Optimised disruption profiles
- RF output power: Details available upon request

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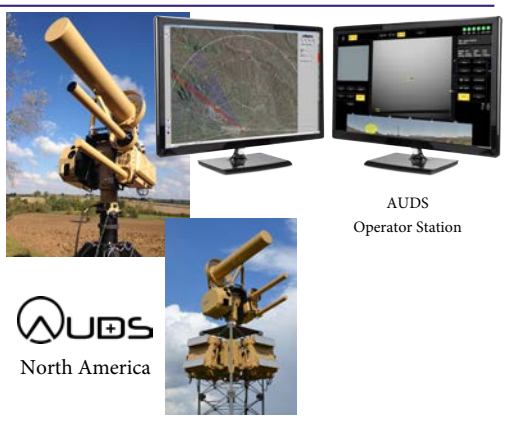

AUDS
Operator Station

AUDS
North America