

Blighter[®] AUDS (Anti UAV Defence System)



Blighter AUDS
(shown with Blighter A422 radar with W20S antennas)

Blighter Surveillance Systems (BSS) addresses a broad range of security requirements in the defence, homeland security and civil/commercial markets. Blighter AUDS is part of a range of advanced BSS technologies that provide class-leading protection against both conventional and asymmetric/terrorist threats.

AUDS (Anti UAV Defence System) is designed to disrupt and neutralise Unmanned Aerial Vehicles (UAVs) engaged in hostile airborne surveillance and potentially malicious activity. The AUDES 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 UAVs 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 UAVs being used for terrorist attacks, espionage or other malicious activities against sites with critical infrastructure.

AUDS Team

The AUDES Team brings together three leading British companies, each with the unique capabilities required to create an effective counter UAV system. Blighter's A400 series air security radars are able to **DETECT** small UAVs in all weather conditions, 24 hours a day. The Chess Dynamics Hawkeye EO/IR camera system, with state-of-the-art video tracking technology, is able to **TRACK** the UAV 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 UAV allowing the system to **DISRUPT** the UAV's mission.

Specification



A400 Series Air Security Radar

- Detection range: 8 km
- Minimum target size (RCS): 0.01 m²
- 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 90° (optional)
- Elevation coverage: 10° (M10S antennas) or 20° (W20S antennas)
- Elevation adjustment: +/-40° using optional Blighter Radar Tilting System (BRTS)



Hawkeye LR Camera

- Colour camera:
 - Type: Colour HD 2.3 Megapixel Array
 - Optical zoom: x30
 - Digital zoom: x12
 - Focus: Auto
- Thermal camera:
 - Type: Gen 3 Cooled
 - Resolution: 640 x 512 pixel
 - Wavelength: 3 to 5 µm (MWIR)
 - Zoom: 24° to 1.8° (continuous)
- Digital video tracker
- Pan & Tilt:
 - Azimuth: Continuous
 - Elevation: -20° to +60°
 - Max speed: 30° per second



Directional RF Inhibitor

- Antennas: Three integrated circularly polarised high gain antennas
- Frequency coverage: Details available on request
- RF output power: Details available on request
- Size (approx.): 1.3 m x 0.6 m x 0.5 m (51.2 in. x 23.6 in. x 19.7 in.)
- Weight - including antennas (approx.): 20 kg (44 lbs)

System Environmental Specification

- Operational Temperature: -32°C (C1) to +49°C (A1) MIL-STD-810G
- Storage Temperature: -33°C (C1) to +71°C (A1) MIL-STD-810G

BSS-1400 ©2015 Blighter Surveillance Systems

Errors and omissions excepted. Blighter Surveillance Systems reserves the right to modify specifications without notice. Blighter radars are protected by a number of international patents. The Blighter Anti UAV Defence System (AUDS) is patent pending. Purchase of this equipment is subject to export licence approval. The Blighter name is an international registered trademark.

Blighter Surveillance Systems

The Plextek Building
London Road
Great Chesterford
Essex CB10 1NY UK

www.blighter.com
sales@blighter.com

Tel: +44 1799 533200
Fax: +44 1799 533201

a Plextek Group company