

INTEGRATED, END-TO-END COUNTER-UAS SOLUTION

DETECT • IDENTIFY • DEFEAT

Key Features

- Fully automatic
- Active detection
- AI target classification
- Configurable actions & zones
- Long-range

Purposes

- Military
- Border control
- Airports
- Bases
- Critical infrastructure

Add-ons

- Passive RF detection and direction finding
- Additional disruptor frequency modules
- Point-to-point wireless radios
- MIMO mesh radios
- Ruggedized C2
- Control room kit

The OWL-IEC-Black Sage long-range counter-UAS system is an integrated, end-to-end solution for detecting, identifying, and neutralizing UAS threats in real time at significant ranges (5 km for Class 1, longer for Class 2 and 3 drones).

More than a single element of a counter-UAS system or multiple non-integrated elements, our fully integrated solution is a demonstrated “system of systems,” including 3D digital radar for detection, tracking, and classification; long-range EO/IR for long-range identification and validation; electronic and digital counter-measure options; and the software for integrated command and control.



Full counter-UAS system with radar, imager, and jammer

Counter-UAS system deployed on mobile platform.

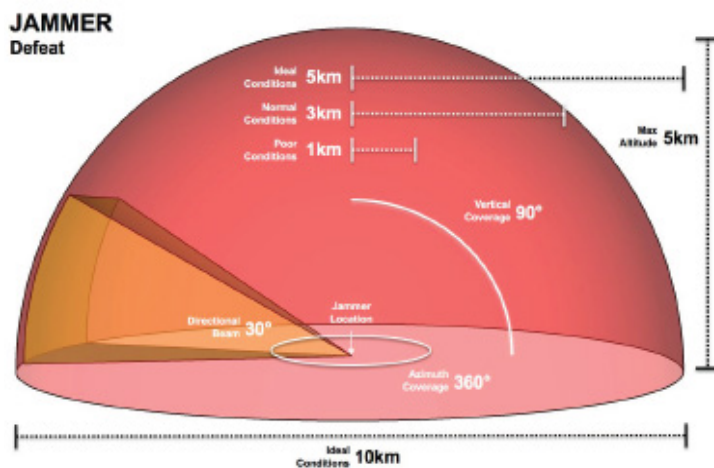
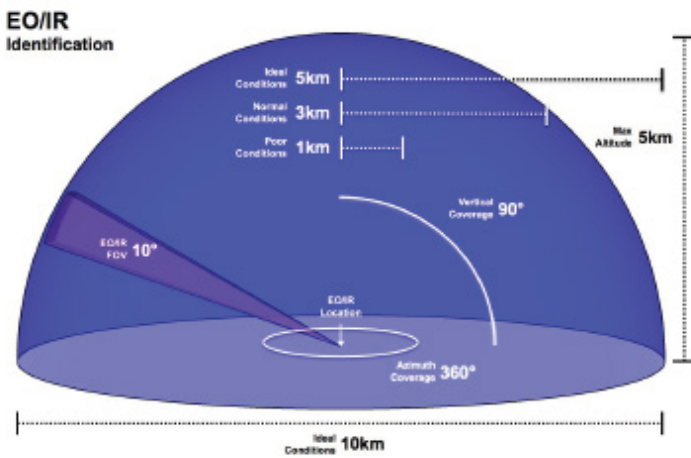
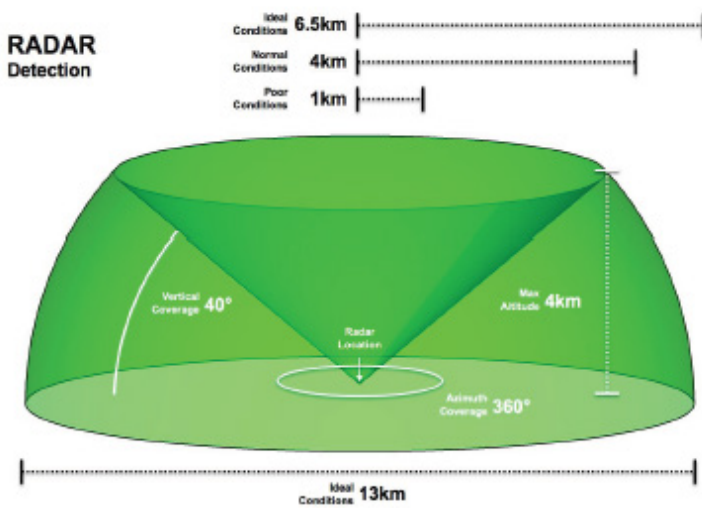
The system provides full hemispherical detection, identification, and defeat coverage. The system is mounted on a structure with a fixed mast or vehicle (VAMTAC, Humvee, Aluma Tower) with retractable mast; requires only 120/240VAC power on premise; performs in fully automatic or man-in-the-loop modes; is monitored and controlled locally or, connected to a larger network and control room for full remote monitoring and control.



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Range Diagrams



OWL Radar Specifications: Detect

Detection range:	4000m (DJI Phantom)
Type	Simultaneous Multi-Beam
Frequency	S-Band, 3.156-3.25GHz
Channels	Configurable
Radar Field of View	360°H x 40°V
Scan volume	Configurable within FOV
Track-while-scan	Yes
Range resolution	10-20
Horiz angle resolution	±.1°
Vert angle resolution	±.44°

Camera System Specifications: Identify

Identification range:	3000m (DJI Phantom)
Infrared sensor	Cooled 40-825mm CZ
Visible sensor	WDR 4.3-129mm CZ
Positioner movement	120°/sec, 360°H x 180°V
Positioner torque	150ft-lbs

Disruptor Specifications: Defeat

Defeat range:	3000m (DJI Phantom)
Frequency modules	2.4GHz, 5.8GHz, 1.575GHz Optional: 433MHz, 915MHz, & Custom Bands
GNSS coverage	GPS, GLONASS, Beidou
Beam	30°H x 60°V
ICNIRP safety	Passed



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