

Modular Anti-Drone System Kit

> The MADS-K (Modular Anti-Drone System Kit) is a modular, low-cost, lightweight, simultaneous ground target and UAS detection and mitigation system. MADS-K provides the operator a stand-alone mission-scalable C-UAS capability.

Easy to train, deploy, operate and maintain, the MADS-K baseline system's modular design incorporates a radar, EO/IR camera, and jammer operating in 360° of azimuth and positive target identification at tactically significant ranges. MADS-K detects, positively identifies, tracks, and when desired jams UAS group 1 and 2 targets.



CUAS

Features

MARS-K V1 RADAR

Air/Ground Surveillance Mode Optimized for C-UAS

- 360 degree coverage
- Detects UAVs (rotary and fixed wing), ultralights, aircraft, dismounted personnel and ground vehicles from close range to 9.3 mi out (250 m out to 15 km)
- Scan rate as low as 2 seconds
- Detects up to 100 simultaneous targets (ground and air)

Detection Ranges

- Detects, tracks and positively classifies targets from close range to 9.3 mi (250 m out to 15 km), target dependent. S-800 sized target 1.8 mi (3 km) / DJI Phantom size targeted 1.2 mi (2 km)

MINI-POP ELECTRO-OPTICAL / INFRARED (EO/IR) CAMERA

- Thermal imaging camera and CCD
- Optical-Tracking
- Video Motion Detection (VMD) capability
- Day camera: 768 x 480 for NTSC, 752 x 576 for PAL, 1.6° to 40° FOV
- IR camera: 640 x 480, 2° to 25° FOV
- Coverage: 360° azimuth/120° in elevation (+90° to -30°)
- Weight: 20.4 lbs (9.3 kg)
- Size: 13 in (33 cm) high, 8 in (20.3) diameter

ELK-7012D DIRECTIONAL JAMMER

- Jams a variety of communications within ISM, U-NII, and GNSS
- Range: up to 1 mi (1.5 km)
- Weight: 44 lbs (20 kg)
- Size: 50 L x 40 W x 40 H in (1.3 L x 1 W x 1 H m)
- Peak Power: 300 W

Environmental

- Operating temperature: -32° C to + 50° C
- Non-operating temperature: -33° C to + 71° C

Mechanical and Electrical

- Weight: 55 lbs (24.9 kg)
- Power: 12 VDC, 24 VDC, 110-220 VAC, 185 W
- 6 BA2590 batteries provide 10 hours of operation (additional batteries increase hours of operation)

Ranges

- Cessna-sized target detection approx. 3.7 mi (6 km) / recognition approx 2 mi (3 km)
- S-800- sized target detection approx. 1.2 mi (2 km) / recognition approx. 1 mi (1.3 km)
- DJI Phantom-sized target detection approx. 1 mi (1.4 km) / recognition 1/2 mi (700 m)

Frequency Bands

- Select frequencies within ISM bands from 400 MHz to 6 GHz
- Beamwidth: 40° to 80°; frequency dependent

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