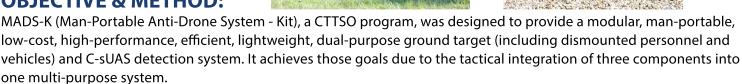


MAN-PORTABLE ANTI-DRONE **SYSTEM KIT**

MADS-K

OBJECTIVE & METHOD:



Designed to be simple to train, deploy, operate and maintain, the MADS-K system incorporates a radar, EO/IR camera and jammer that operate in 360 degrees of azimuth and allow for positive target identification at tactically significant ranges. When operating, MADS-K detects, positively identifies and jams sUAS group 1 and 2 target sets command guidance link and GPS receivers.

MADS-K provides the operator with a complete, cost-effective, simple to operate, mission-scalable, man-portable C-sUAS capability.

Additional options available to increase lethality.

CAPABILITY DESCRIPTION

MARS-K RADAR

Air/Ground Surveillance Mode Optimized for C-sUAS

- 360 degrees coverage
- Scan rate: 4 seconds*
- Targets: 100 simultaneous
- *Depending on Static or On the Move mode

Detection Ranges

- Detects, tracks and positively IDs sUAS (Rotary/Fixed Wing), Ultralights, dismounted personnel and vehicles at the following ranges:
 - -Normal: 250m
 - -High-priority target: 140m
- Maximum range determined by: peak power of the transmitted pulse, Pulse Repetition Frequency (PRF) or Pulse Repetition Rate (PRR), and receiver sensitivity

Environmental:

■ Temperature: -20°C to +50°C

Mechanical and Electrical:

■ Integrated GPS, ruggedized connectors, Persistent Systems MPU5 Radios, wireless HMI operation and tablet-based C2

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

- Designed for Airborne UAV detection
- Thermal and Day color CCD
- Weight: 20 lbs. Optical-Tracking ■ 360° azimuth
- ~4km Human recognition range ~8km Vehicle recognition Range
- Day Camera: 752x576 resolution; 1.7° + 40° field of view Night Camera: 480 x 384 resolution; 2° + 22° field of view

JAMMER / COMJAM

Protocols:

- Air / Ground Surveillance Mode Optimized for C-sUAS
- 360° coverage ■ Scan rate: 4 seconds*
- Targets: 100 simultaneous
- *Depending on Static or On the Move mode

Frequency Bands:

■ Common Commercial Bands

Capabilities:

- Range 3-5 Km Acquisition via downlink channel
- Support Black and White list ■ Operating from GDU-(C2)
- OMNI directional detection & identification
- Directional jammer ■ Weight: 44 lbs.
- Coarse DF:
 - 1. Initiated by RADAR
 - 2. Independent DF finding 360° scan



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