



OTM V4

## On-The-Move Counter UAS Solution

The On-The-Move V4 (OTM V4) is a modular and scalable Counter UAS (C-UAS) solution for early warning, detection, disruption, and alert. All components are TRL-9, fully integrated, and are true on the move operational.

The OTM V4 system implements a multi-sensor, multi-layer architecture that protects against various types of rotary and fixed-wing UAS.

The system provides 360° coverage and is equipped with four phase array radar panels that transmit simultaneously with high time-on-target (TOT) and energy. The integrated EO/IR camera receives target cues from the radar to visually identify the threat, allowing the operator to mitigate using the RF jammer or drone take-over system.

### MISSIONS

Counter UAS

Air Defense

Border Protection

C-RAM

# CAPABILITIES

## DETECTION AND TRACKING

Through the use of a state-of-the-art fully phased-array, multi-mission 3D radar

## CLASSIFICATION

From fused sensor data

## IDENTIFICATION

Through a high-performance multi-sensor EO/IR unit capable of tracking and identifying both ground and air targets

## COMMUNICATION

Through ATAK and a private, secure tactical 4G/LTE network for sharing data across dismounted personnel

## SCALABLE EFFECTS MITIGATION

Options include non-kinetic electronic disruption & deterrence, precision RF drone takeover, a safe route/safe land capture system, and kinetic effects through highly accurate, computer-aided small arms fire

# SPECIFICATIONS

### RADAR

### EO/IR CAMERA

(Other Configurations Available)

### RF JAMMER

### PASSIVE RF MITIGATION

<b>Size</b>	Antenna: 18.9"x 14"x6.3" SMR: 23.8"x9.8"x6.2"	15" diameter, 24" height	27.4"x15.7"x22.5"	Antenna: 18" diameter, 9" height SDR: 17"x17"x5"
<b>Weight</b>	330 lbs (4 panels & SMR)	77 lbs	45 lbs (without pedestal)	Antenna: 20 lbs SDR: 35 lbs
<b>Power</b>	Average: 17W Peak Power: 576W	Average: 260W Peak Power: 430W	Average: 200W Peak Power: 600W full TX	Average: 121W Peak Power: 150W
<b>Spacial Coverage / FOV</b>	<b>Azimuth:</b> 100° per panel <b>Elevation:</b> Up to 30° for search; up to 60° for HPT targets	<b>Azimuth:</b> Continuous 360° <b>Elevation:</b> 89° ±1° to -10° ±1°	<b>UHF Antenna:</b> 90° in azimuth and in elevation <b>High Band Antenna:</b> 40° in azimuth 80° in elevation	<b>Azimuth:</b> Continuous 360° <b>Elevation:</b> 40° to 15°
<b>Features</b>	<ul style="list-style-type: none"> <li>Tracks &gt; 100 targets simultaneously</li> <li>&lt; 2 second revisit time</li> <li>&lt; 5% radar duty-cycle</li> </ul>	<ul style="list-style-type: none"> <li>Up to 60° per second slew rate and 5 μ Rad RMS stabilization level</li> <li>Broad FOV with HD resolution and continuous zoom</li> </ul>	<ul style="list-style-type: none"> <li>Directional antennas</li> <li>Frequencies cover 400MHz to 6GHz</li> </ul>	<ul style="list-style-type: none"> <li>Omnidirectional antennas</li> <li>Frequencies cover 400MHz to 6GHz</li> </ul>

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