

## 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 at convoy speeds.

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

The fielded 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



Air  
Defense



CUAS



C-RAM



Homeland  
Security



Vehicle  
Protection

# Features

## 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

## TRUE ON THE MOVE

A fully integrated, fielded system capable of operating at convoy speeds up to 50 mph

## 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

# Specifications

Description	Radar	EO/IR Camera (Other Configurations Available)	RF Jammer	Passive RF Mitigation
<b>Size</b>	Antenna: 18.9 x 14 x 6.3 in (48 x 35.6 x 16 cm) SMR: 23.8 x 9.8 x 6.2 in (60.5 x 24.9 x 15.7 cm)	15 in diameter, 24 in height (38.1 cm diameter, 61 cm height)	27.4 x 15.7 x 22.5 in (69.6 x 39.9 x 57.2 cm)	Antenna: 18 in diameter, 9 in height (45.7 cm diameter, 22.9 cm height) SDR: 17 x 17 x 5 in (43.2 x 43.2 x 12.7 cm)
<b>Weight</b>	330 lbs (149.7 kg) (4 panels & SMR)	77 lbs (34.9 kg)	45 lbs (20.4 kg) (without pedestal)	Antenna: 20 lbs (9 kg) SDR: 35 lbs (15.9 kg)
<b>Power</b>	Average: 17 W Peak Power: 576 W	Average: 260 W Peak Power: 430 W	Average: 200 W Peak Power: 600 W full TX	Average: 121 W Peak Power: 150 W
<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 400 MHz to 6 GHz</li> </ul>	<ul style="list-style-type: none"> <li>Omnidirectional antennas</li> <li>Frequencies cover 400 MHz to 6 GHz</li> </ul>

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