

# Ground Imaging Systems

RELIABLE PERFORMANCE IN THE HARSHTEST ENVIRONMENTS



RUGGED, PORTABLE AND HIGH-PERFORMANCE IMAGING SYSTEMS FOR FIXED, MOBILE AND ON-THE-MOVE MISSIONS.

[info@ascentvision.com](mailto:info@ascentvision.com)  
[www.ascentvision.com](http://www.ascentvision.com)



# Ground ISR

## Superior Force Protection in High Risk Conditions

### > MAN-PORTABLE

Designed for fixed site, mobile and on-the-move missions, AVT's ground multi-spectral imaging systems are small, compact and lightweight to facilitate easy transportation between facilities.

### > 24/7 SURVEILLANCE

For greater ground coverage and improved situational awareness, our ground systems provide HD daylight and crisp thermal imaging with exceptional zoom capabilities for effective long and short range target acquisition. High definition MWIR sensors deliver accurate target identification in low light conditions.

### > HIGH PERFORMANCE IMAGING IN ALL ENVIRONMENTS

AVT's rugged ground sensors are optimized for extreme environments and weather conditions, including high heat and humid climates. The sensors are engineered with cutting-edge stabilization technologies to provide powerful imagery on-the-move in challenging terrain environments.

### > MOBILE AND ON-THE-MOVE MISSIONS

Install on a range of platforms (manned and unmanned) for reliable mobile reconnaissance. Electronic and mechanical stabilization provides smooth and seamless imagery to help the operator accurately detect and identify a target while on-the-move.

## MISSIONS

- > FORWARD OPERATING BASE SURVEILLANCE
- > VIP PROTECTION
- > FORCE PROTECTION
- > MOBILE RECONNAISSANCE
- > ACCURATE TARGET ACQUISITION
- > SECURITY AT THE HALT



# Counter UAS

## World-Leading Counter UAS Technology

The powerful CM202U multi sensor imaging system has been effectively utilized by military personnel to optically positively identify small fixed wing UAS at ranges up to 5,000 meters.

### > OPERATOR ASSIST

Counter UAS Operator Assist (CUAS-OA) uses two detection algorithms that work together to maximize speed to detection. Motion Threat Detection picks up on subtle movements that are invisible to the human eye to improve the probability of detecting a threat. Operating above and below the horizon line, Motion Target Detection detects moving people, vehicles and general motion below the horizon line, while detecting features consistent with UAS above the horizon line. Static Target Detection detects small point features consistent with sUAS, providing effective performance when the system is static or in motion.

### > CUAS SUITE

Control all aspects of the counter UAS system (including multiple CM202U sensors) using the intuitive CUAS Suite. The software allows all aspects of the counter UAS mission to perform autonomously, reducing the need for operator intervention.

## Ground Imaging Systems

### CM262

ADVANCED FULL HD IMAGING SYSTEM FOR GROUND VEHICLES  
26.5lb / 12kg | 260mm x 395mm  
60x EO Optical Zoom  
20x MWIR Optical Zoom  
SWIR Imagery  
Laser Range Finder  
IP67 Rating



### CM202U

PORTABLE, RUGGED AND PROVEN MULTI SENSOR COUNTER UAS SYSTEM  
12lb / 5500g | 203mm x 320mm  
60x EO Optical Zoom  
20x MWIR Optical Zoom



### CM202S

MULTI SENSOR IMAGING SYSTEM FOR GROUND SURVEILLANCE  
12lb / 5500g | 203mm x 320mm  
60x EO Optical Zoom  
20x MWIR Optical Zoom



# Standard Features

## OBJECT TRACKING

Lock onto an object to maintain a consistent and reliable track. This feature keeps a target in the center of the screen, mitigating platform and object movements until a further command is given.

## GEO-LOCK

Gather accurate geo-location data or lock the sensor onto a specific geo-location with a simple click of a button.

## ENHANCED STABILIZATION

Gyro-stabilization improves the image quality by mechanically removing any movements or vibrations produced by a moving platform. Real time video stabilization further counteracts vibrations to provide a smooth and seamless video experience.

## ONBOARD VIDEO ENCODING

Video is encoded onboard to MISB and STANAG standards to maximize system compatibility.

## NAVIGATION

Benefit from accurate acceleration, orientation, position and velocity data.

## PLUG 'N' PLAY HOOK UP

AVT systems provide quick and simple integration into all platform types to facilitate rapid deployment and instant operation.

## EASE OF EXPORT

We manufacture our systems in the United States and Australia to provide ease of exportation to customers worldwide.

# Contact Us



USA and EMEA  
Ascent Vision Technologies  
+1 406-388-2092  
info@ascentvision.com

90 Aviation Lane, Belgrade,  
Montana 59714  
United States

[www.ascentvision.com](http://www.ascentvision.com)



APAC  
AVT Australia  
+61 265 811 994  
sales@ascentvision.com.au

Melbourne  
VIC 3003  
Australia

[www.ascentvision.com/au](http://www.ascentvision.com/au)