Airborne Imaging Systems

THE HIGHEST PERFORMANCE FOR THE LOWEST SWAP–C

HIGH–PERFORMANCE, LOW SWAP–C AND GYRO–STABILIZED IMAGING SYSTEMS FOR MANNED AND UNMANNED AERIAL VEHICLES.

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THE HIGHEST PERFORMANCE FOR THE LOWEST SWaP-C
AVT’s airborne imaging systems are carefully engineered to provide best-in-class imagery for the lowest size, weight, power and cost. Designed to facilitate longer flight endurance, AVT sensors use very little power to ensure the platform can stay in the air for longer.

SUITABLE FOR ALL PLATFORMS
We provide lightweight and cost-effective airborne imaging solutions for a range of platforms, including: mini and micro UAS; tactical UAS; surveillance UAS; VTOLs; aerostats and lighter than air platforms; light fixed wing aircraft; and helicopters.

24/7 INTELLIGENCE, SURVEILLANCE AND RECONNAISSANCE
For missions that run from day to night, AVT’s imaging systems include daylight and thermal (LWIR, MWIR or SWIR) sensors. Crisp thermal imagery is crucial for detecting and identifying targets in low light conditions. Laser sensor configurations provide target positioning information for effective target acquisition.

HD ELECTRO-OPTICAL IMAGING
For accurate aerial intelligence, surveillance and reconnaissance, all AVT imaging payloads include a high-definition daylight (electro-optical) sensor as standard.
 Detect, Recognize & Identify

Effective Imaging Solutions for Long and Short Range DRI

> EASE OF DEPLOYMENT
For rapid deployment, our airborne imaging systems provide simple hook up ‘plug ’n’ play’. The intuitive operator interface displays high quality intelligence without the need for extensive training or setting modifications.

> RUGGED
Our airborne systems have undergone extensive testing and development in a range of environments, including high heat and humid conditions. We develop our systems to an IP66 rating as standard to ensure each sensor performs effectively in the most challenging environments.

> THE SMOOTHEST VIDEO EXPERIENCE
Gyro-stabilization and onboard real-time electronic stabilization delivers smooth and seamless imagery for accurate detection and identification of a target.

Airborne Imaging Systems

CM142
LIGHTWEIGHT EO / IR IMAGING SYSTEM FOR UAS AND AEROSTATS
2.8lb / 1270g | 135mm x 167mm
30x EO Continuous Optical Zoom
3x LWIR Continuous Optical Zoom

CM202
ADVANCED EO / MWIR IMAGING SYSTEM FOR UAS AND AIRCRAFT
7.7lb / 3500g | 190mm x 295mm
30x EO Continuous Optical Zoom
13x MWIR Continuous 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

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