

CM142

Multi-Sensor Gyro-Stabilized System



Accurate detection, recognition,
and identification – day or night

The CM142 is a lightweight gyro-stabilized imaging system that provides operators with long-range aerial intelligence, surveillance, and reconnaissance (ISR) capabilities that are ideal for long-endurance unmanned aircraft system (UAS) operations. The CM142 combines a high-definition electro-optical (EO) core sensor with a long-wave infrared (LWIR) sensor in a compact 2.8lb system. Designed to meet UAS size, weight, and power (SWaP) constraints, the CM142 is a proven imaging system that provides advanced capabilities for aerial ISR, law enforcement and security, wildfire management, and emergency response operations.

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Features

- 30x optical zoom EO sensor
- LWIR sensor capability
- Laser range finder option
- Dust and water resistant IP66 protection rating
- On-board video encoding and processing
- VEXOS operator-customized command and control interface
- Real-time navigation information on user interface as optional overlays; includes acceleration, orientation, position, and velocity data

Benefits

- Optimized for high-definition day and night accurate, long-range detection and identification
- Payload of choice for aerial firefighting response and management, search and rescue, and similar missions
- Real-time video enhancements are fully integrated inside every system to help operator gather more ISR from missions
- Minimal hardware facilitates easier integration into UAS, aerostats, and aircraft

High Performance, Low SWaP ISR and Target Acquisition

The CM142 is equipped with a high-definition daylight sensor that provides 30x continuous optical zoom for operators, as well as a LWIR sensor for accurate, long-range detection and identification during day or night operations. Dust and water resistant with an IP66 rating, the CM142 is suitable for deployment in a range of environments and climates and is the UAS payload of choice for aerial wildfire surveillance operations.



The CM142 uses intelligent object tracking to gather accurate information on targets moving at high speed, while its platform is in motion – allowing the operator to keep the target in the center of the frame and providing a consistent, reliable object track. With the GEO-lock feature, the operator can point to a position on a map to maintain a consistent location view while the platform maneuvers, gathering geo-positioning data on a target for more effective target acquisition. Real-time video stabilization corrects jumpy and jittery movements and can be automated to provide steadier and clearer images. With superior ISR capabilities and its low SWaP, the CM142 is ready and optimized for integration into lightweight UAS platforms carrying out a range of critical missions such as wildfire management and response, search and rescue, and law enforcement.

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