

CM102

Multi-Mission ISR and C-sUAS



Gyro-stabilized EO/LWIR
imaging system

High-definition imagery in a compact, lightweight system

Designed for the evolving needs of intelligence, surveillance, and reconnaissance (ISR) applications, the CM102 offers high-quality imagery in a lightweight payload ideal for uncrewed aircraft system (UAS) operations.

Weighing under two pounds, the CM102 incorporates high-definition electro-optical (EO) and long-wave infrared (LWIR) performance in a two-axis stabilized system. The CM102 is equipped with advanced onboard features such as object detection and recognition and fully integrated video processing and encoding. An IP65 rating (with optional IP67 rating) ensures reliable performance in harsh environments.

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For more information about our
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Features

- HD EO and HD LWIR
- Onboard video processing
- Onboard object detection and recognition
- H.264 and H.265 encoding
- Compatible with MAVLink
- E-stabilization
- Roll stabilization
- IP65 rating (with optional IP67)
- User-friendly command and control
- ITAR free
- 75x EO zoom

Benefits

- Combines high-resolution imaging with a lightweight payload for long endurance operations
- A range of onboard features and video analytics support ISR applications and allow for enhanced operations
- H.264 and H.265 encoding produce high-quality outputs while requiring less processing power, bandwidth, and storage space
- MAVLink compatibility empowers users to tailor the setup to their specific mission needs

The CM102 offers best-in-class HD EO and HD LWIR performance in a lightweight imaging system. Two-axis active stabilization, an IP65 rating, and total weight under two pounds make the CM102 an ideal choice for UAS operations. Operators can gather accurate information with the on-board video processing features, including object detection and recognition, e-stabilization, roll stabilization, object tracking, and scene tracking. The CM102 includes the latest H.264 and H.265 video encoding capabilities, allowing for easier video storage and streaming. The onboard video encoding and processing eliminates the need for additional hardware, keeping the total payload weight low and extending flight time. The CM102 is ITAR-free and accessible for international distribution and use, allowing greater deployment flexibility.



Configuration

Weight	<900g / <1.98lbs
Ball Diameter	100mm / 3.94in
Height	150mm / 5.9in
Elevation	-90° / -110° from horizontal

Daylight (EO)

EO Sensor	
Type	Color CMOS
Resolution	1080p, 720p, 480p
HFoV	56° to 0.8° (at 640x480 resolution)
Zoom	75x Zoom
Frame Rate	30 Hz @1080p

HD LWIR

LWIR Sensor	
Type	Uncooled LWIR
Resolution	1280x1024
HFoV	17.6° (at 720p resolution)
Focal Length	50mm
Frame Rate	30 Hz @720p* *configurable for 9Hz output

This material consists of CACI International Inc general capabilities information that does not contain controlled technical data as defined within the International Traffic in Arms Regulations (ITAR), Part 120.10, or Export Administration Regulations (EAR), Part 734.7-10. (PRR ID813)



EXPERTISE and TECHNOLOGY
for National Security

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