

CM102

Multi-mission ISR and C-sUAS



For more information about
CACI's technology suite,
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For more information, visit:
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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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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.

CM102 SPECIFICATIONS

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)