LUCINT VIEW

PRECISE, RELIABLE, COMPLETE

LUCINTSYSTEMS.COM

The industry-leading multispectral **Lucint View-M** camera combines dual high-resolution visible-to-NIR sensors with an internal radiometric long-wave thermal camera. In-camera geospatial image processing with **Lucint Fuse**, precise timestamps with metadata, and synchronized image exposures create a compact and cost-effective all-in-one imaging solution.

Dual 5 or 12 megapixel global shutter sensors with bandpass or IR-cut optical filters. Built-in radiometric thermal long-wave sensor.

C-Mount optics allow for a variety of high-quality lens and focal length options.

Up to 1 TB built-in SSD, RTK GNSS receiver, Ethernet or WiFi for control and image offloading.

Weather-sealed machined aluminum case endures exterior mounting. Optional lens tubes for complete environmental protection.

Complete software for automated image capture, internal NVIDIA GPU supports Lucint Fuse processing system.

LUCINT VIEW-M

Multispectral Photogrammetry

On-board image processing with **Lucint Fuse** enables real-time georeferencing, GeoTiff creation, and multi-camera band alignment.

All images exposed simultaneously to simplify image processing.

Large pixels result in excellent dynamic range.

Automated Acquisition

Auto-exposure designed for aerial capture ensures consistent exposures.

Auto-trigger options include set frame rate, percent overlap, or external trigger.

Auto-target by AOI using built-in GNSS captures metadata and precise GNSS timestamp with each frame.

Rugged and Reliable

Global electronic shutter means no moving parts and no rolling shutter distortions.

Industrial components with extended operating temperature range.

Fully-sealed weather proof housing and connectors for harsh environments.

info@lucintsystems.com
(503) 383-1815

DESIGNED & MANUFACTURED IN THE USA

6635 N. Baltimore Ave. Ste 204
Portland, OR 97203

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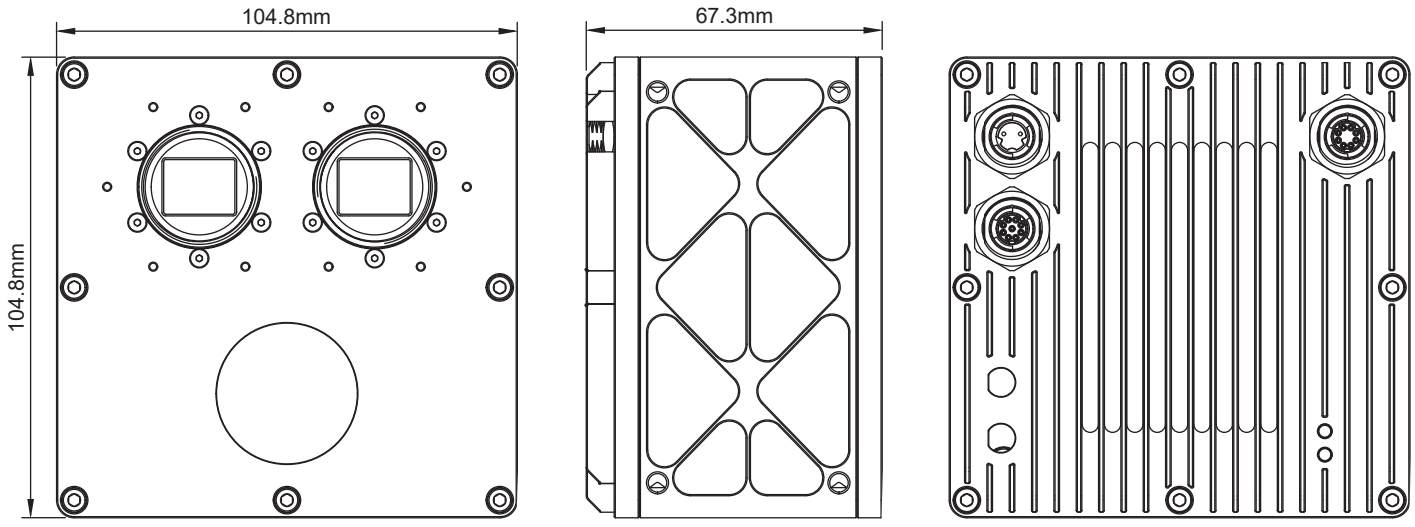
LUCINT VIEW-M SPECIFICATIONS

Spectral Bands	Sensor 1: RGB or Monochrome Sensor 2: RGB or Monochrome Thermal: 320x240 LWIR Radiometric
Image Format	RAW, GeoTIFF, JPEG
Focus Modes	Lens Dependent, Manual
Exposure Modes	Auto Exposure, Manual
Bit Depth	8/12 bits per pixel
Resolution	2 x 5MP or 2 x 12 MP, 3.45 micron pixel size
Sensor Size	Max 14.19 mm x 10.38 mm (1.1" optical), 12MP
Shutter Type	Electronic Global
Shutter Speeds	30 us - 1 second
Frame Rate	5 FPS @ 12-bit, full resolution (12MP)
Lens Mount	C-Mount x 2
Imagery Offload	Gigabit Ethernet, WiFi
Internal Storage	mSATA SSD, up to 1TB
Image Metadata	Internal GNSS, External NMEA/IMU
Timestamp Accuracy	<1 us (GNSS, External Time)
Calibration	Radiometric, Optical Corrections, Band Alignment
Internal Processing	ARM CPU + NVIDIA GPU
Trigger Inputs	External TTL, Software
Trigger Options	Edge, Debounce
Trigger Timing	Fixed Interval, % Overlap
Supply Voltage	24VDC (14VDC - 30VDC)
Power Consumption	15W idle / 22W nominal
Dimensions	10.48 cm x 10.48 cm x 6.73 cm (4.125 in x 4.125 in x 2.65 in)
Weight	694 grams (24.5oz)
Environmental	-30C to 70C (-22F to 158F)

Contact Lucint Systems for lightweight, non-sealed enclosure options or for board-level applications.

LUCINT VIEW-M MECHANICAL



Lucint Systems designs and builds rugged, reliable, fully-automated photogrammetric cameras for manned aircraft, UAVs, and ground platforms. From single camera installations to multispectral, multi-camera payloads, we design systems for easy integration and rapid deployment.

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