

The industry-leading high resolution Lucint View 31 camera combines photogrammetric image quality, in-camera geospatial image processing with Lucint Fuse, and precise timestamps with metadata create a compact and cost-effective all-in-one image acquisition solution.

Sony E-Mount compatible, locking lens mount secures high quality optics.

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

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



31 megapixel global shutter sensor, color or monochrome, with choice of bandpass optical filters.

Weather-sealed machined aluminum case endures exterior airframe mounting.

Rugged, sealed connectors allow easy compact installation for single and multi-camera arrays.

## LUCINT VIEW 31

### Multispectral Photogrammetry

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

Lightweight, high-quality lenses available in a wide range of focal lengths.

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.

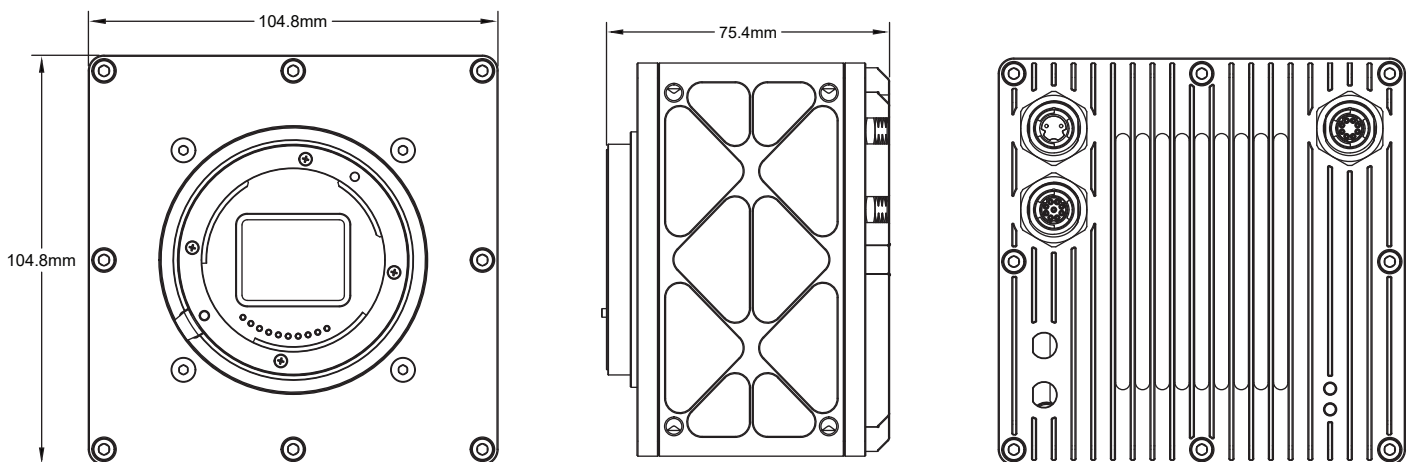
Fully-sealed weather proof housing and connectors for harsh environments.

## LUCINT VIEW 31 SPECIFICATIONS

<b>Spectral Bands</b>	RGB, Monochrome (NIR, Custom Filtered)	<b>Image Metadata</b>	Internal GNSS, External NMEA/IMU
<b>Image Format</b>	RAW, GeoTIFF, JPEG	<b>Timestamp Accuracy</b>	<1 us (GNSS, External Time)
<b>Focus Modes</b>	Manual	<b>Calibration</b>	Radiometric & optical corrections
<b>Exposure Modes</b>	Full Auto, Manual	<b>Imagery Offload</b>	Gigabit Ethernet, WiFi
<b>Bit Depth</b>	8/12 bits per pixel	<b>Internal Storage</b>	mSATA SSD, up to 1TB
<b>Resolution</b>	31 MP, 3.45 micron pixel size	<b>Internal Processing</b>	ARM CPU + NVIDIA GPU
<b>Sensor Size</b>	22.36 mm x 16.8 mm (APS-C optical)	<b>Trigger Inputs</b>	External TTL, Software
<b>Shutter Type</b>	Electronic Global	<b>Trigger Options</b>	Edge, Debounce
<b>Shutter Speeds</b>	30 us - 1 second	<b>Trigger Timing</b>	Fixed Interval, % Overlap
<b>Frame Rate</b>	4 FPS @ 12-bit, full resolution, internal SSD	<b>Supply Voltage</b>	24VDC (14VDC - 30VDC)
<b>Lens Mount</b>	Sony E-Mount compatible	<b>Power Consumption</b>	15W idle / 22W nominal
<b>Lens Options</b>	16mm, 20mm, 24mm, 28mm, 30mm 35mm, 45mm, 50mm, 55mm, 85mm	<b>Dimensions</b>	10.48 cm x 10.48 cm x 7.54 cm (4.125 in x 4.125 in x 2.97 in)
<b>GSD, 16mm lens</b>	0.5 cm / pixel at 30.5m (0.23 in at 100 ft)	<b>Weight</b>	680 grams (24 oz)
<b>GSD, 50mm lens</b>	0.2 cm / pixel at 30.5m (0.08 in at 100 ft)	<b>Environmental</b>	-30C to 70C (-22F to 158F)

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

## LUCINT VIEW 31 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.