LUCINT

LUCINTSYSTEMS.COM

PRECISE, RELIABLE, COMPLETE

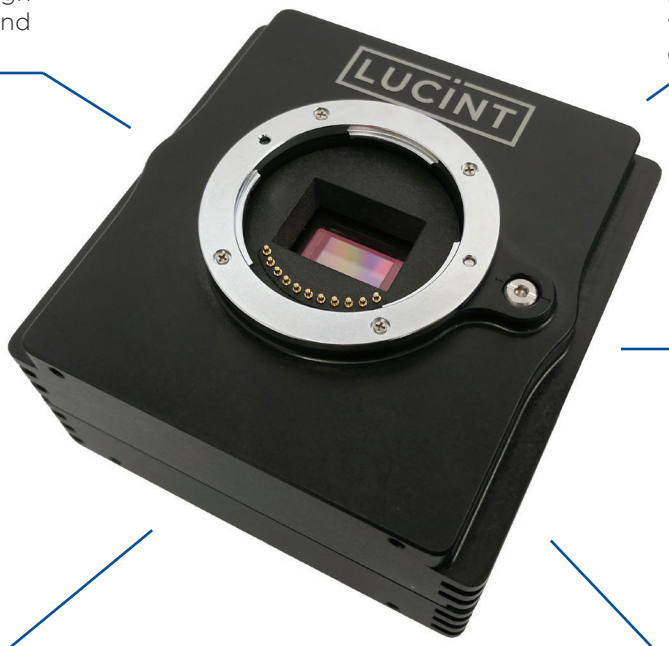
April 2018

LUCINT12 Vision

The industry-leading Lucint12 Vision combines photogrammetric image quality, in-camera image processing, and precise timestamps and metadata into a compact, complete, cost-effective image acquisition system.

Micro Four Thirds compatible, locking lens mount secures high quality optics with focus and aperture control.

12 megapixel global shutter color or monochrome sensor with configurable bandpass optical filters.



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

Weather-sealed, machined aluminum case endures exterior airframe mounting.

Complete software for automated image capture. Run custom image processing algorithms on the internal NVIDIA GPU.

Rugged, right angle connectors allow easy compact installation in single and multi-camera arrays.

Designed for Photogrammetry

Large pixels result in excellent dynamic range.

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

Capture metadata and precise GPS timestamp with each frame.

Automated Acquisition

Auto-exposure designed for aerial capture ensures consistent exposures.

Auto-focus optimized for aerial installations.

Auto-trigger at set frame rate, percent image overlap, or external trigger.

Rugged and Reliable

Global electronic shutter, no moving parts, no rolling shutter distortions.

Industrial components extend operating temperature range.

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

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DESIGNED & MANUFACTURED IN THE USA

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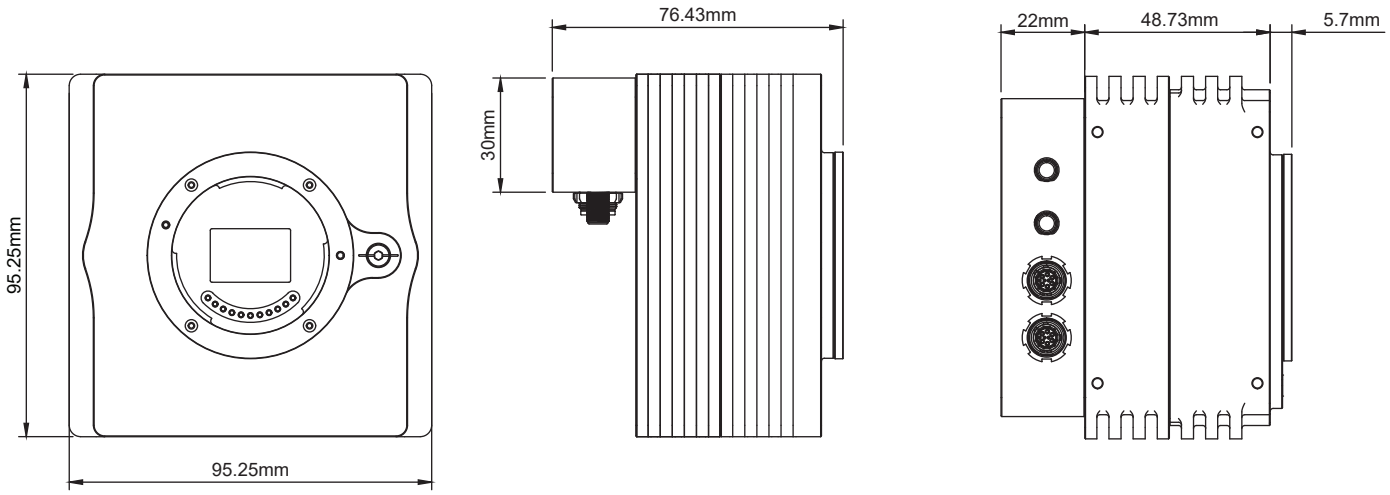
LUCINT12 Vision Mechanical



LUCINT12 Vision Specifications

Spectral Bands	RGB, Monochrome (NIR, Custom Filtered)
Image Format	RAW, TIFF, JPEG
Focus Modes	One-Shot, Continuous, Manual
Exposure Modes	Full Auto, Manual, Aperture, Shutter
Bit Depth	8/10/12 bits per pixel
Resolution	12 MP, 3.45 micron pixel size
Sensor Size	14.19 mm x 10.38 mm (1.1" optical)
Shutter Type	Electronic Global
Shutter Speeds	30 us - 1 second
Frame Rate	15 FPS @ 12-bit, full resolution, internal SSD
Lens Mount	Micro Four Thirds compatible
Lens Options	10mm, 12mm, 14mm, 17mm, 20mm, 25mm, 35mm, 45mm, 60mm, 75mm, 85mm
GSD, 12mm lens	3.2 cm / pixel at 122m (1.3 in at 400 ft)
GSD, 45mm lens	0.9 cm / pixel at 122m (0.4 in at 400 ft)
Image Metadata	Internal GPS, External NMEA/IMU
Timestamp Accuracy	<1 us (GPS, External Time Reference)
Calibration	Radiometric & Optical corrections
Imagery Offload	Gigabit Ethernet, WiFi
Internal Storage	mSATA SSD, up to 1TB
Internal Processing	ARM CPU + NVIDIA GPU
Trigger Inputs	External TTL, Software
Trigger Options	Edge, Debounce
Trigger Timing	Fixed Interval, % Overlap, Burst
Supply Voltage	14VDC - 30VDC
Power Consumption	13W idle / 20W nominal
Dimensions	9.53 cm x 9.53 cm x 7.64 cm (3.75 in x 3.75 in x 3.0 in)
Weight	552 grams (19.5oz)
Environmental	-30C to 70C (-22F to 158F)

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

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