

# Lucid Vision Labs Triton™ TRI005S-MC, Sony IMX433, 0.5MP, Monochrome Camera

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LUCID Vision Labs Triton™ Power over Ethernet (PoE) Cameras



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## Product Downloads

Monochrome **Spectrum:**

## General

Monochrome Camera **Type:**

TRI005S-MC **Model Number:**

Lucid Vision Labs **Manufacturer:**

Triton™ **Camera Series:**

## Physical & Mechanical Properties

**Dimensions (mm):**  
29 x 29 x 45 (excludes connectors and lens mount)

**Weight (g):**  
67

**Housing:**  
Full

## Sensor

**Image Buffer:**  
128MB

**Sensor Format:**  
1/1.7"

**Resolution (Megapixels):**  
0.50

**Frame Rate (fps):**  
166.40

**Pixels (H x V):**  
812 x 620

**Pixel Size, H x V (µm):**  
9.00 x 9.00

**Sensing Area, H x V (mm):**  
7.31 x 5.58

**Imaging Sensor:**  
Sony IMX433

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
12 bit

**Exposure Time:**  
13.7µs - 10s (Normal);  
1µs - 5µs (Short Mode)

**Dynamic Range (dB):**  
0 - 48

**Machine Vision Standard:**  
GigE Vision v2.0

## Electrical

**Power Consumption (W):**  
2.5 (External Power Supply)  
3.1 (PoE)

## Hardware & Interface Connectivity

**Interface:**  
GigE (PoE)

**Connector:**  
GigE, M12

**Power Supply:**  
Power over Ethernet (PoE) or via GPIO with 12-24VDC Power Supply

**GPIOs:**  
1 opto-isolated input, 1 opto-isolated output, 2 non-isolated bi-directional ports

**Synchronization:**  
Hardware Trigger (GPIO), Software Trigger, or PTP (IEEE 1588)

**Interface Port Orientation:**  
Back Panel

**GPIO Connector Type:**  
8-pin M8

## Threading & Mounting

**Mount:**  
C-Mount

**Mounting Threads:**  
1/4-20 with Tripod Mount Adapter [#11-474](#)

## Environmental & Durability Factors

**Operating Temperature (°C):**

-20 to +55

Storage Temperature (°C):

-30 to +60

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## Regulatory Compliance

Certificate of Conformance:

[View](#)

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## Product Details

- Compact 29 x 29 x 45mm Form Factor
- Global, Rolling, or Polarized CMOS Sensors
- IP67 Protection with Optional Lens Tubes

LUCID Vision Labs Triton™ GigE Power over Ethernet (PoE) Cameras provide exceptional price performance in a compact 29 x 29mm form factor. These cameras are available with Sony's Pregius™ and Starvis™ imaging sensors with up to 24.5 megapixels of resolution, as well as Sony's polarized sensor. Each imaging sensor is actively aligned during manufacturing, ensuring sharp and crisp images even in the corners. Using the accessory IP67 lens tubes (sold separately), LUCID Vision Labs Triton GigE Power over Ethernet (PoE) Cameras can operate in harsh environments where dust or water are present up to IP67 thresholds. Triton cameras are ideal for automotive, process control, and food and beverage applications.

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