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# LUCID Vision Labs Triton™ TRI028S-MC, Sony IMX429, 2.8MP, 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:**

TRI028S-MC **Model Number:**

Lucid Vision Labs **Manufacturer:**  
Triton™ **Camera Series:**

## Physical & Mechanical Properties

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

67 **Weight (g):**

Full **Housing:**

## Sensor

128MB **Image Buffer:**

2/3" **Sensor Format:**

2.80 **Resolution (Megapixels):**

42.50 **Frame Rate (fps):**

1,936 x 1,464 **Pixels (H x V):**

4.5 x 4.5 **Pixel Size, H x V (µm):**

8.71 x 6.59 **Sensing Area, H x V (mm):**

Sony IMX429 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

20.5µs - 10s **Exposure Time:**

71.99 **Dynamic Range (dB):**

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

## Electrical

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

## Hardware & Interface Connectivity

GigE (PoE) **Interface:**

GigE, M12 **Connector:**

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#18-364](#)  
Europe: [#18-364](#)  
Japan: [#18-364](#)  
Korea: Not Available  
China: [#18-364](#)

**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)

Back Panel **Interface Port Orientation:**

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

## Threading & Mounting

C-Mount **Mount:**

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

## Environmental & Durability Factors

-20 to +55 **Operating Temperature (°C):**

-30 to +60 **Storage Temperature (°C):**

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## Regulatory Compliance

[View](#) **Certificate of Conformance:**

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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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