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# LUCID Vision Labs Triton2™ TRT081S-MC, Sony IMX546, 8.1MP, Monochrome Camera

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LUCID Vision Labs Triton2™ 2.5GigE Power over Ethernet (PoE) Cameras - Front



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## Product Downloads

Monochrome	<b>Spectrum:</b>
<b>General</b>	
Monochrome Camera	<b>Type:</b>
TRT081S-MC	<b>Model Number:</b>

Lucid Vision Labs **Manufacturer:**

Triton2™ **Camera Series:**

## Physical & Mechanical Properties

**Dimensions (mm):**  
44.0 x 29.0 x 45.3 (excludes connectors and lens mount)

90 **Weight (g):**

Full **Housing:**

## Sensor

128MB **Image Buffer:**

2/3" **Sensor Format:**

8.10 **Resolution (Megapixels):**

31.80 **Frame Rate (fps):**

2,840 x 2,840 **Pixels (H x V):**

2.74 x 2.74 **Pixel Size, H x V (µm):**

7.78 x 7.78 **Sensing Area, H x V (mm):**

Sony IMX546 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

13.056µs - 10s **Exposure Time:**

48.0 **Dynamic Range (dB):**

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

## Electrical

4.5 (External Power Supply) 5.0 (PoE) **Power Consumption (W):**

## Hardware & Interface Connectivity

2.5GigE (PoE) **Interface:**

2.5GigE, GigE, M12 **Connector:**

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#18-364](#)  
Europe: [#18-365](#)  
Japan: [#18-364](#)  
Korea: Not Available  
China: [#18-365](#)

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

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

Back Panel **Interface Port Orientation:**

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

## Threading & Mounting

C-Mount **Mount:**

¼-20 with Tripod Mount Adapter **Mounting Threads:**

## Environmental & Durability Factors

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-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

- 2.5GBASE-T (2.5GigE) Ethernet Interface
- 5.0 to 24.50 MegaPixel Sensors
- Compact 44 x 29 x 45.3mm Form Factor
- IP67 Protection with Optional Lens Tubes

LUCID Vision Labs Triton2™ 2.5GigE Power over Ethernet (PoE) Cameras provide data transfer speeds of 2.5GigE enabling high frame rates at increased resolutions. Featuring an actively aligned image sensor, these cameras are designed to minimize sensor tilt and rotation and ensure alignment of the image sensor to the lens optical axis. For harsh environments with dust or water, accessory lens tubes are available to ensure an IP67 rating. LUCID Vision Labs Triton2™ 2.5GigE Power over Ethernet (PoE) Cameras feature excellent thermal management with a wide operating temperature range from -20°C to 55°C. These cameras are ideal for automotive, process control, and food and beverage applications.

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