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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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Monochrome	Spectrum:
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**General**

Monochrome Camera	Type:
TRT081S-MC	Model Number:
	Manufacturer:

## Camera Series:

## Physical &amp; Mechanical Properties

## Dimensions (mm):

44.0 x 29.0 x 45.3 (excludes connectors and lens mount)

## Weight (g):

90

## Housing:

Full

## Sensor

## Image Buffer:

128MB

## Sensor Format:

2/3"

## Resolution (Megapixels):

8.10

## Frame Rate (fps):

31.80

## Pixels (H x V):

2,840 x 2,840

## Pixel Size, H x V (µm):

2.74 x 2.74

## Sensing Area, H x V (mm):

7.78 x 7.78

## Imaging Sensor:

Sony IMX546

## Type of Sensor:

Progressive Scan CMOS

## Shutter Type:

Global

## Pixel Depth:

12 bit

## Exposure Time:

13.056µs - 10s

## Dynamic Range (dB):

48.0

## Machine Vision Standard:

GigE Vision v2.0

## Electrical

## Power Consumption (W):

4.5 (External Power Supply) 5.0 (PoE)

## Hardware &amp; Interface Connectivity

## Interface:

2.5GigE (PoE)

## Connector:

2.5GigE, GigE, M12

## Power Supply:

Power Supply Required and Sold Separately:

USA: [#18-364](#)Europe: [#18-365](#)Japan: [#18-364](#)

Korea: Not Available

China: [#18-365](#)

## 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 MB

## Threading &amp; Mounting

## Mount:

C-Mount

## Mounting Threads:

1/4-20 with Tripod Mount Adapter

## Environmental &amp; Durability Factors

## Operating Temperature (°C):

-20 to +55

**Storage Temperature (°C):**

-30 to +60

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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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