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LUCID Vision Labs Triton™ TRI050S-PC, Sony IMX250MZR, 5.0MP, Polarized Monochrome Camera

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



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Monochrome (Polarized) **Spectrum:**

General

Polarized Monochrome Camera **Type:**

TRI050S-PC	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:
5.00	Resolution (Megapixels):
24.00	Frame Rate (fps):
2,448 x 2,048	Pixels (H x V):
3.45 x 3.45	Pixel Size, H x V (µm):
8.45 x 7.07	Sensing Area, H x V (mm):
Sony IMX250MZR	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
12 bit	Pixel Depth:
30µs - 10s	Exposure Time:
71.34	Dynamic Range (dB):
GigE Vision v2.0	Machine Vision Standard:

Electrical

2.5 (External Power Supply) 3.1 (PoE)	Power Consumption (W):
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Hardware & Interface Connectivity

GigE (PoE)	Interface:
GigE, M12	Connector:
Power Supply Required and Sold Separately: USA: #18-364 Europe: #18-364 Japan: #18-364 Korea: Not Available China: #18-364	Power Supply:
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:
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):**

Regulatory Compliance

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

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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