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# LUCID Vision Labs Triton™ TRI124S-CC, Sony IMX545, 12.3MP, Color Camera

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



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|--------------|--|---------------|
| Color        |  | Spectrum:     |
| Color Camera |  | Type:         |
|              |  | Model Number: |

|                                                                                                                                                                                                           |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| TRI124S-CC                                                                                                                                                                                                |                             |
| 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:               |
|                                                                                                                                                                                                           |                             |
| 1/1.1"                                                                                                                                                                                                    | Sensor Format:              |
|                                                                                                                                                                                                           |                             |
| 12.30                                                                                                                                                                                                     | Resolution (Megapixels):    |
|                                                                                                                                                                                                           |                             |
| 9.00                                                                                                                                                                                                      | Frame Rate (fps):           |
|                                                                                                                                                                                                           |                             |
| 4,096 x 3,000                                                                                                                                                                                             | Pixels (H x V):             |
|                                                                                                                                                                                                           |                             |
| 2.74 x 2.74                                                                                                                                                                                               | Pixel Size, H x V (µm):     |
|                                                                                                                                                                                                           |                             |
| 11.22 x 8.22                                                                                                                                                                                              | Sensing Area, H x V (mm):   |
|                                                                                                                                                                                                           |                             |
| Sony IMX545                                                                                                                                                                                               | Imaging Sensor:             |
|                                                                                                                                                                                                           |                             |
| Progressive Scan CMOS                                                                                                                                                                                     | Type of Sensor:             |
|                                                                                                                                                                                                           |                             |
| Global                                                                                                                                                                                                    | Shutter Type:               |
|                                                                                                                                                                                                           |                             |
| 12 bit                                                                                                                                                                                                    | Pixel Depth:                |
|                                                                                                                                                                                                           |                             |
| 35.50µs - 10s                                                                                                                                                                                             | Exposure Time:              |
|                                                                                                                                                                                                           |                             |
| GigE Vision v2.0                                                                                                                                                                                          | Machine Vision Standard:    |
|                                                                                                                                                                                                           |                             |
| Electrical                                                                                                                                                                                                |                             |
| 2.5 (External Power Supply)<br>3.1 (PoE)                                                                                                                                                                  | Power Consumption (W):      |
|                                                                                                                                                                                                           |                             |
| Hardware & Interface Connectivity                                                                                                                                                                         |                             |
| GigE (PoE)                                                                                                                                                                                                | Interface:                  |
|                                                                                                                                                                                                           |                             |
| GigE, M12                                                                                                                                                                                                 | Connector:                  |
|                                                                                                                                                                                                           |                             |
| Power Supply Required and Sold Separately:<br>USA: <a href="#">#18-364</a><br>Europe: <a href="#">#18-364</a><br>Japan: <a href="#">#18-364</a><br>Korea: Not Available<br>China: <a href="#">#18-364</a> | 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 <a href="#">#11-474</a>                                                                                                                                                  | Mounting Threads:           |
|                                                                                                                                                                                                           |                             |
| Environmental & Durability Factors                                                                                                                                                                        |                             |
|                                                                                                                                                                                                           | Operating Temperature (°C): |
|                                                                                                                                                                                                           |                             |

|            |                           |
|------------|---------------------------|
| -20 to +55 |                           |
|            | Storage Temperature (°C): |
| -30 to +60 |                           |

Regulatory Compliance

|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | 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.