

LUCID Vision Labs Triton™ TRI200S-MC, Sony IMX183, 20.0MP, Monochrome Camera

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



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Whitepapers	EO Spec Sheet

Spectrum: Monochrome

General

Type: Monochrome Camera	Model Number: TRI200S-MC
Manufacturer: Lucid Vision Labs	Camera Series: Triton™

Physical & Mechanical Properties

Dimensions (mm): 29 x 29 x 45 (excludes connectors and lens mount)	Weight (g): 67
Housing: Full	

Sensor

Image Buffer: 128MB	Sensor Format: 1"
Resolution (Megapixels): 20.00	Frame Rate (fps): 6.00
Pixels (H x V): 5,472 x 3,648	Pixel Size, H x V (µm): 2.40 x 2.40
Sensing Area, H x V (mm): 13.13 x 8.76	Imaging Sensor: Sony IMX183
Type of Sensor: Progressive Scan CMOS	Shutter Type: Rolling
Pixel Depth: 12 bit	Exposure Time: 359µs - 2.5s
Dynamic Range (dB): 71.23	Machine Vision Standard: GigE Vision v2.0

Electrical

Power Consumption (W): 3 (External Power Supply) 3.5 (PoE)	
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Hardware & Interface Connectivity

Interface: GigE (PoE)	Connector: GigE, M12
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)	Interface Port Orientation: Back Panel
GPIO Connector Type: 8-pin M8	

Threading & Mounting

Mount: C-Mount	Mounting Threads: ¼-20 with Tripod Mount Adapter #11-474
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Environmental & Durability Factors

Operating Temperature (°C): -20 to +55	Storage Temperature (°C): -30 to +60
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Regulatory Compliance

Certificate of Conformance: View	
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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.

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	¼-20 Tripod Adapter for Phoenix™ and Triton™		#11-474	C\$53.20 Request Quote	16 In Stock <input type="text" value="1"/>
MORE+	5m M12 to RJ45 IP67 CAT6A Cable		#13-749	C\$284.20 Request Quote	10 In Stock <input type="text" value="1"/>
MORE+	M8 8-pin GPIO cable, 1m		#13-750	C\$127.40 Request Quote	13 In Stock <input type="text" value="1"/>

	Title	Compare	Stock Number	Price	Buy
MORE+	M8 GPIO IP67 Cap		#13-753	C\$16.80 Request Quote	4 In Stock <input type="text" value="1"/>
MORE+	35.5mm ID, 29.9mm Inner Length, IP67 C-Mount Lens Tube		#13-739	C\$312.20 Request Quote	4 In Stock <input type="text" value="1"/>
MORE+	35.5mm ID, 39.9mm Inner Length, IP67 C-Mount Lens Tube		#13-740	C\$312.20 Request Quote	5 In Stock <input type="text" value="1"/>
MORE+	35.5mm ID, 59.9mm Inner Length, IP67 C-Mount Lens Tube		#13-741	C\$312.20 Request Quote	5 In Stock <input type="text" value="1"/>
MORE+	44mm ID, 38.5mm Inner Length, IP67 C-Mount Lens Tube		#13-742	C\$407.40 Request Quote	5 In Stock <input type="text" value="1"/>
MORE+	44mm ID, 68.5mm Inner Length, IP67 C-Mount Lens Tube		#13-743	C\$407.40 Request Quote	4 In Stock <input type="text" value="1"/>
MORE+	8mm Focal Length, HP Series Fixed Focal Length Lens		#86-569	C\$1,533.00 Request Quote	16 In Stock <input type="text" value="1"/>
MORE+	12mm Focal Length, HP Series Fixed Focal Length Lens		#86-570	C\$1,169.00 Request Quote	15 In Stock <input type="text" value="1"/>
MORE+	16mm Focal Length, HP Series Fixed Focal Length Lens		#86-571	C\$1,169.00 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	25mm Focal Length, HP Series Fixed Focal Length Lens		#86-572	C\$924.00 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	35mm Focal Length, HP Series Fixed Focal Length Lens		#86-573	C\$924.00 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	50mm Focal Length, HP Series Fixed Focal Length Lens		#86-574	C\$1,085.00 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	100mm C Series Fixed Focal Length Lens		#86-410	C\$868.00 Request Quote	CONTACT US <input type="text" value="1"/>

Imaging Lens Selector

Imaging

Factory Automation

Telecentric

M12

Custom Sensor

Camera Model

Camera Model:

Number of Horizontal Pixels:

1

Number of Vertical Pixels:

2

Pixel Size (µm):

3

Working Distance (mm):

Horizontal Field of View (mm):



Disclaimer: Values represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.

Calibration Services

PixelTraq Camera Calibration Services Quote Tool

Edmund Optics has partnered with Quartus Engineering to provide their **PixelTraq camera calibration service** for new orders of TechSpec imaging lenses and machine vision camera pairs. You will receive a fully assembled, focused, and calibrated imaging assembly along with calibration files and certification.

Use the tool below to explore camera calibration service options and pricing.

Your Selections

Please enter your required specifications here:

Camera

Imaging Lens

Calibration Color ⓘ

Camera Model Output ⓘ

Working Distance (m)

Aperture (f/#) ⓘ

Additional Comments

CONTACT US TO DISCUSS

GET QUOTE PREVIEW

Frequently Purchased Together



#86-570 - 12mm Focal Length, HP Series Fixed Focal Length Lens
C\$1,169.00

Qty



#86-571 - 16mm Focal Length, HP Series Fixed Focal Length Lens
C\$1,169.00

Qty



#34-011 - 0.136X, 1" C-Mount TitanTL® Telecentric Lens
C\$6,594.00

Qty



#34-015 - 0.377X, 4/3" C-Mount TitanTL® Telecentric Lens
C\$3,486.00

Qty

Resources

Media Type

- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Technical Tool

APPLICATION NOTE

Sensor Performance and Limitations

APPLICATION NOTE

Imaging Electronics 101: Basics of Digital...

APPLICATION NOTE

Imaging Electronics 101: Camera Resolution fo...

APPLICATION NOTE

Imaging Electronics 101: Understandi...

VIDEO

How Do Cameras Work?

PUBLISHED ARTICLE

Advancements in Short Wave Infrared Sensors

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