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# LUCID Vision Labs Atlas10 ATX081S-MC, Sony IMX536, 8.1MP, Monochrome Camera

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LUCID Vision Labs Atlas10 10GigE Power over Ethernet (PoE) Cameras (Front, C-Mount)



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## Product Downloads

Monochrome	<b>Spectrum:</b>
<b>General</b>	
Monochrome Camera	<b>Type:</b>
ATX081S-MC	<b>Model Number:</b>

Lucid Vision Labs **Manufacturer:**

Atlas10 **Camera Series:**

## Physical & Mechanical Properties

**Dimensions (mm):**  
55 x 55 x 95.5 (excludes connectors and lens mount)

304 **Weight (g):**

Full **Housing:**

## Sensor

380MB **Image Buffer:**

2/3" **Sensor Format:**

8.10 **Resolution (Megapixels):**

136.70 **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 IMX536 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

8/10/12 Bit **Pixel Depth:**

5.05µs - 10s **Exposure Time:**

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

## Electrical

11.5 (External Power Supply) <12 (PoE+) **Power Consumption (W):**

## Hardware & Interface Connectivity

10GigE (PoE+) **Interface:**

10GigE, M12 **Connector:**

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

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:**

2 x 1/4-20 with Tripod Mount Adapter [#17-120](#) **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

- 10GBASE-T (10GigE) Ethernet Interface with PoE+
- 5.0 to 65 Megapixel Sony 4th Gen Pregius S Sensors
- Compact 55 x 55mm Form Factor
- TFL-Mount Compatible with some [TECHSPEC® CA Series FFL Lenses](#)

LUCID Vision Labs Atlas 10 10GigE Power over Ethernet (PoE) Cameras combine 4th generation Sony Pregius S sensors with 10GigE interface, delivering fast frame rates at high resolution and image quality in a compact and rugged housing. The 10GBASE-T Power over Ethernet PoE+ interface allows for data transfer speeds of up to 1.2 GB/s and can also provide power to the camera over one CAT6a cable up to 25m in length. The high bandwidth enables these cameras to run at high bit depths (10/12-bit) to maximize image quality while maintaining smooth frame rates. The back-illuminated CMOS sensors offer high sensitivity, high dynamic range, and low noise, and are actively aligned to the lens mount at the same optical axis to minimize performance discrepancies resulting from sensor tilt and rotation. LUCID Vision Labs Atlas 10 10GigE Power over Ethernet (PoE) Cameras are GigE Vision compliant and feature rugged M12 Ethernet and M8 GPIO connectors, making them ideal choices for industrial, automotive, factory automation, process control, and other machine vision applications requiring high resolutions and bandwidth.

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