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# Lucid Vision Labs Atlas10 ATX314S-MNL, Sony IMX342, 31.4MP, Monochrome Camera

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



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⊖ 1 ⊕ €6.440<sup>00</sup>

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## Product Downloads

Monochrome **Spectrum:**

## General

Monochrome Camera **Type:**

ATX314S-MNL **Model Number:**

Lucid Vision Labs

**Manufacturer:**

Atlas 10

**Camera Series:**

## Physical & Mechanical Properties

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

**Weight (g):**  
240

**Housing:**  
Full

## Sensor

**Image Buffer:**  
380MB

**Sensor Format:**  
APS-C

**Resolution (Megapixels):**  
31.40

**Frame Rate (fps):**  
35.10

**Pixels (H x V):**  
6,464 x 4,852

**Pixel Size, H x V (µm):**  
3.45 x 3.45

**Sensing Area, H x V (mm):**  
22.30 x 16.74

**Imaging Sensor:**  
Sony IMX342

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

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

**Exposure Time:**  
37.896 µs - 10 s (Normal); 2.328µs - 2.464µs (Short Mode)

**Dynamic Range (dB):**  
70.9

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

## Electrical

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

## Hardware & Interface Connectivity

**Connector:**  
10GigE, 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:**  
No Lens Mount

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

## Environmental & Durability Factors

**Operating Temperature (°C):**  
-20 to +55

-30 to +60 **Storage Temperature (°C):**

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## Regulatory Compliance

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

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## 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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