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# Lucid Vision Labs Atlas ATL120S-MNL, Sony IMX253, 12.3MP, Monochrome Camera

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LUCID Vision Labs Atlas™ Power over Ethernet (PoE) 5GBASE-T (5GigE) Cameras

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Monochrome **Spectrum:**

**General**

Monochrome Camera **Type:**

ATL120S-MNL **Model Number:**

Lucid Vision Labs **Manufacturer:**

Atlas™

Camera Series:

## Physical & Mechanical Properties

**Dimensions (mm):**  
55 x 55 x 70 (excludes connectors and lens mount)

**Weight (g):**  
240

**Housing:**  
Full

## Sensor

**Image Buffer:**  
380MB

**Sensor Format:**  
1.1"

**Resolution (Megapixels):**  
12.30

**Frame Rate (fps):**  
42.50

**Pixels (H x V):**  
4,096 x 3,000

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

**Sensing Area, H x V (mm):**  
14.13 x 10.35

**Imaging Sensor:**  
Sony IMX253

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

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

**Exposure Time:**  
25.4µs - 10s (Normal); 1µs - 16µs (Short Mode)

**Dynamic Range (dB):**  
71.2

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

## Electrical

**Power Consumption (W):**  
7 (External Power Supply)  
8 (PoE)

## Hardware & Interface Connectivity

**Connector:**  
5GigE, 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:**  
1/4-20 with Tripod Mount Adapter [#13-751](#)

## Environmental & Durability Factors

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

**Storage Temperature (°C):**

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## Regulatory Compliance

Certificate of Conformance:

[View](#)

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## Product Details

- 5GBASE-T (5GigE) Ethernet Interface
- 2.8 to 31.4 Megapixel Sensors
- Compact 55 x 55 x 70mm Design
- TFL-Mount Compatible with [TECHSPEC® CA Series FFL Lenses](#)

LUCID Vision Labs Atlas™ Power over Ethernet (PoE) 5GBASE-T (5GigE) Cameras have a small footprint and feature large format, high resolution sensors with up to 31.4MP at 17.9fps. During manufacturing, their imaging sensors are actively aligned to minimize sensor tilt and rotation, resulting in sharp and crisp images even in the corners. The 5GigE Ethernet interface provides up to 5X faster speeds than GigE for applications requiring high bandwidth. These cameras also feature a TFL-Mount that is easily adaptable to F-Mount. LUCID Vision Labs Atlas Power over Ethernet (PoE) 5GBASE-T (5GigE) Cameras are ideal for industrial applications including [factory automation](#), autonomous robotics, and biometrics.

## Calibration Services

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