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# LUCID Vision Labs Phoenix™ PHX120S-MC, Sony IMX304, 12.3 MP, Monochrome Camera

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## Product Downloads

**Spectrum:**  
Monochrome

## General

**Type:**  
Monochrome Camera

PHX120S-MC **Model Number:**

Lucid Vision Labs **Manufacturer:**

Phoenix™ **Camera Series:**

## Physical & Mechanical Properties

28 x 28 x 28.4 (excludes connectors and lens mount) **Dimensions (mm):**

39 **Weight (g):**

Partial **Housing:**

## Sensor

128MB **Image Buffer:**

1.1" **Sensor Format:**

12.30 **Resolution (Megapixels):**

10.00 **Frame Rate (fps):**

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

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

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

Sony IMX304 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

30µs - 10s **Exposure Time:**

71.34 **Dynamic Range (dB):**

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

## Electrical

3 (External Power Supply)  
3.5 (PoE) **Power Consumption (W):**

## Hardware & Interface Connectivity

GigE (PoE) **Interface:**

GigE, RJ45 **Connector:**

Power over Ethernet (PoE) or via GPIO with 12-24VDC Power Supply **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 JST **GPIO Connector Type:**

## Threading & Mounting

C-Mount **Mount:**

¼-20 with Tripod Mount Adapter [#11-474](#) **Mounting Threads:**

## Environmental & Durability Factors

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

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

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## Regulatory Compliance

[Exempt](#) **RoHS 2015:**

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

[Contains SVHC\(s\)](#) **Reach 247:**

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## Product Details

- Unfolding Board Stacks for Customization
- Power Over Ethernet (PoE) for Easy Integration
- Compact Size Starting at 24 x 24mm

LUCID Vision Labs Phoenix™ Power over Ethernet (PoE) Cameras are compact, high performance cameras with one of the smallest form factors in the PoE GigE market. Featuring unfolding board stacks, these cameras easily transform between a 90° and 180° angle shape to provide flexible system integration. Additional software versatility is provided by GigE Vision compliancy, allowing for compatibility with third-party GigE Vision software. LUCID Vision Labs Phoenix™ Power over Ethernet (PoE) Cameras offer powerful Image Signal Processing (ISP), ensuring optimal camera performance with options including Region of Interest (ROI), Color Correction Matrix (CCM), and Binning without any limitations on higher frame rates. These cameras are ideal for industrial applications requiring cameras with compact form factors.

**Note:** GigE cable required for operation, both RJ45 and ix™ versions are available. The ix™ is a miniaturized industrial connector that is not compatible with RJ45 cables. Optional tripod adapter ([#11-474](#)) available.