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LUCID Vision Labs Helios™2 Wide Time of Flight (ToF) Camera

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⊖ 1 ⊕ **\$2,513⁰⁰**

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Monochrome **Spectrum:**

General

Monochrome Camera **Type:**

HTW003S-001 **Model Number:**

Lucid Vision Labs **Manufacturer:**

Helios™ **Camera Series:**

108 x 78 **Field of View (°):**

Physical & Mechanical Properties

60 x 60 x 77.5 (excludes connectors and lens mount) **Dimensions (mm):**

390 **Weight (g):**

Full **Housing:**

13.8 x 8.1 **Field of View (mm):**

Sensor

1/2" **Sensor Format:**

0.30 **Resolution (Megapixels):**

30.00 **Frame Rate (fps):**

640 x 480 **Pixels (H x V):**

10 x 10 **Pixel Size, H x V (µm):**

0.64 x 0.48 **Sensing Area, H x V (mm):**

Sony DepthSense IMX556 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

8/12/16 bit **Pixel Depth:**

62.5 µs, 250 µs, or 1000 µs **Exposure Time:**

Standard **Dynamic Range (dB):**

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

Electrical

12 - 30 **Power Consumption (W):**

Hardware & Interface Connectivity

GigE (PoE+) **Interface:**

GigE, M12 **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 M8 **GPIO Connector Type:**

Environmental & Durability Factors

-20° to 50°C **Operating Temperature (°C):**

-20° to 50°C **Storage Temperature (°C):**

Regulatory Compliance

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

Product Details

- Ideal for Robotics and Automation Applications
- IP67 Rated 3D Cameras
- Available Kits Feature 3D and 2D RGB Solutions

LUCID Helios™2 Time of Flight (ToF) Cameras are 3D cameras featuring Sony's DepthSense sensor, engineered for high performance operation in industrial environments. Built for demanding 24/7 environments, these cameras are ideal for robotics, 3D inspection, advanced material handling, sorting and pick and place applications. LUCID Helios™2 Time of Flight (ToF) Cameras feature enhanced calibration between the VCSELs and sensor timing, resulting in higher 3D detail, along with improved edge detection to reduce flying pixels and overall noise. For an even higher performance option, the Helios™2+ offers high dynamic range and high-speed modes for precise and quick analyzation. Available kits feature a Helios™2 ToF Camera, 3.2MP Triton Camera, lens tubes, cables, and accessories required for creating dust proof, water-resistant color point clouds.
