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

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LUCID Helios™2 Time of Flight (ToF) Cameras

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⊖ 1 ⊕ €1.540<sup>00</sup>

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## Product Downloads

Monochrome **Spectrum:**

## General

Monochrome Camera **Type:**

HLT003S-001 **Model Number:**

Lucid Vision Labs **Manufacturer:**

Helios™ Camera Series:

Contents of Kit:

-

## Physical & Mechanical Properties

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

**Weight (g):**  
398

**Housing:**  
Full

## Sensor

**Sensor Format:**  
1/2"

**Resolution (Megapixels):**  
0.30

**Frame Rate (fps):**  
30.00

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

**Pixel Size, H x V (µm):**  
10 x 10

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

**Imaging Sensor:**  
Sony DepthSense IMX556

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

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

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

**Dynamic Range (dB):**  
Standard

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

## Electrical

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

## Hardware & Interface Connectivity

**Interface:**  
GigE (PoE+)

**Connector:**  
GigE, M12

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

**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 MB

## Threading & Mounting

**Mount:**  
No Lens Mount

**Mounting Threads:**  
N/A

## Environmental & Durability Factors

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

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

Certificate of Conformance:

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## 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.

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