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GS3-U3-32S4M-C 1/1.8" FLIR Grasshopper®3 High Performance USB 3.0 Monochrome Camera

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Teledyne FLIR IIS Grasshopper®3 USB 3.0 Cameras (Front)



Stock #33-534 **2 In Stock**

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1 €1.155⁰⁰

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Note: This item requires accessories for use | [Learn More](#)

Product Downloads

Monochrome **Spectrum:**

General

| | |
|-------------------|----------------|
| Monochrome Camera | Type: |
| GS3-U3-32S4M-C | Model Number: |
| FLIR | Manufacturer: |
| Grasshopper®3 | Camera Series: |

Physical & Mechanical Properties

| | |
|---|------------------|
| 44 x 29 x 57.5 (excludes connectors and lens mount) | Dimensions (mm): |
| 90 | Weight (g): |
| Full | Housing: |

Sensor

| | |
|---------------------------------|---------------------------|
| 128MB | Image Buffer: |
| 1/1.8" | Sensor Format: |
| 3.20 | Resolution (Megapixels): |
| 121.00 | Frame Rate (fps): |
| 2,048 x 1,536 | Pixels (H x V): |
| 3.45 x 3.45 | Pixel Size, H x V (µm): |
| 7.07 x 5.3 | Sensing Area, H x V (mm): |
| Sony IMX252 | Imaging Sensor: |
| Progressive Scan CMOS | Type of Sensor: |
| Global | Shutter Type: |
| 10/12 bit | Pixel Depth: |
| 5µs - 32s | Exposure Time: |
| 65.31 (Mode 0) / 71.34 (Mode 7) | Dynamic Range (dB): |
| USB3 Vision v1.0 | Machine Vision Standard: |

Electrical

| | |
|-----|------------------------|
| 4.5 | Power Consumption (W): |
|-----|------------------------|

Hardware & Interface Connectivity

| | |
|--|-----------------------------|
| USB 3.0 | Interface: |
| USB 3.1 Gen 1, Micro-B with Screw Locks | Connector: |
| Power over USB (required for operation) #86-770 or via GPIO with #86-784 | Power Supply: |
| 1 opto-isolated input, 2 opto-isolated outputs, 2 non-isolated bi-directional ports | GPIOs: |
| Hardware Trigger (GPIO) or Software Trigger | Synchronization: |
| Back Panel | Interface Port Orientation: |
| 8-pin Hirose (HR25) | GPIO Connector Type: |
| 5.00 | Transfer Speed (Gbit/s): |

Threading & Mounting

| | |
|---------|-------------------|
| C-Mount | Mount: |
| | Mounting Threads: |

Environmental & Durability Factors

0 to +50 **Operating Temperature (°C):**

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

Regulatory Compliance

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

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

[Contains SVHC\(s\)](#) **Reach 240:**

Product Details

- Feature High Resolution, High Sensitivity Sensors
- High Frame Rates Driven by USB 3.0 Interface
- Includes Image Capture Software and SDK



Teledyne
Authorized
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Teledyne FLIR IIS Grasshopper@3: Machine Vision area scan camera

The **Grasshopper@3** offers a cost-effective, powerful and easy-to-use alternative to Camera Link and dual GigE LAG solutions.

The **Grasshopper@3** camera line combines the benefits of CCD with the affordability and data throughput of either USB 3.0 or GigE interfaces. This high-performance camera model provides a range of characteristics with either CMOS or CCD sensors. Its FPGA and frame buffer-based architecture provides optimal reliability, a rich set of features, and a full image processing pipeline including color interpolation, gamma, and lookup table functionality.

Note: USB 3.0 cable (sold separately) is required for operation. Optional power supply ([#86-784](#)) available. Software available for [download](#). FLIR was previously known as Point Grey.

Features

- Compact form factor
- USB 3.0 models with resolutions from 2.3 to 12 Megapixel sensors
- GigE interface model at 2.3 Megapixel for high bandwidth performance
- Various high-resolution, large format CCD and CMOS sensor options
- Color transformation tools for true-to-life color
- GigE models feature PoE for simplified setup and maintenance
- Spinnaker SDK and code samples

Applications

- Factory automation
- 3D Measurement
- Flat Panel Inspection
- Life science instrumentation
- Biometrics kiosk solutions
- Ophthalmology
- Intelligent traffic systems