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# GS3-U3-51S5C-C 2/3" FLIR Grasshopper®3 High Performance USB 3.0 Color Camera

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



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₹1,74,000

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

Product Downloads

Color

Spectrum:

General

Color Camera

Type:

|                |                |
|----------------|----------------|
| GS3-U3-51S5C-C | Model Number:  |
| FLIR           | Manufacturer:  |
| Grasshopper®3  | Camera Series: |

**Note:**  
Dimensions: Exclude 1/4-20 Tripod Adapter and Lens Holder

### 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:             |
| 2/3"                            | Sensor Format:            |
| 5.00                            | Resolution (Megapixels):  |
| 75.00                           | Frame Rate (fps):         |
| 2,448 x 2,048                   | Pixels (H x V):           |
| 3.45 x 3.45                     | Pixel Size, H x V (µm):   |
| 8.45 x 7.07                     | Sensing Area, H x V (mm): |
| Sony IMX250                     | Imaging Sensor:           |
| Progressive Scan CMOS           | Type of Sensor:           |
| Global                          | Shutter Type:             |
| 10/12 bit                       | Pixel Depth:              |
| 6µs - 32s                       | Exposure Time:            |
| 65.41 (Mode 0) / 71.27 (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) <a href="#">#86-770</a> or via GPIO with <a href="#">#86-784</a> | 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:        |

### Threading & Mounting

|                                                          |                   |
|----------------------------------------------------------|-------------------|
| C-Mount                                                  | Mount:            |
| 1/4-20 with Tripod Mount Adapter <a href="#">#88-057</a> | Mounting Threads: |

Environmental & Durability Factors

|            |                             |
|------------|-----------------------------|
| 0 to +50   | Operating Temperature (°C): |
| -30 to +60 | Storage Temperature (°C):   |

Regulatory Compliance

|                                     |                             |
|-------------------------------------|-----------------------------|
| <a href="#">View</a>                | Certificate of Conformance: |
| Canada                              | Country of Origin:          |
| Edmund Optics India Private Limited | Imported By:                |

Product Details

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



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