

[See all 23 Products in Family](#)

# GS3-U3-89S6M-C 1" FLIR Grasshopper®3 High Performance USB 3.0 Monochrome Camera

See More by [Teledyne FLIR](#)



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



Stock **#36-337** **4 In Stock**

[Similar Cameras](#)

-

1

+

 ₹3,39,500

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | ₹3,39,500 each                |
| Need More?     | <a href="#">Request Quote</a> |

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

| Product Downloads |
|-------------------|
|-------------------|

Monochrome

Spectrum:

General

|                   |                |
|-------------------|----------------|
| Monochrome Camera | Type:          |
| GS3-U3-89S6M-C    | Model Number:  |
| FLIR              | Manufacturer:  |
| Grasshopper®3     | Camera Series: |

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

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"    | Sensor Format: |

|       |                          |
|-------|--------------------------|
| 8.90  | Resolution (Megapixels): |
| 43.00 | Frame Rate (fps):        |

|               |                 |
|---------------|-----------------|
| 4,096 x 2,160 | Pixels (H x V): |
|---------------|-----------------|

|             |                         |
|-------------|-------------------------|
| 3.45 x 3.45 | Pixel Size, H x V (µm): |
|-------------|-------------------------|

|              |                           |
|--------------|---------------------------|
| 14.13 x 7.45 | Sensing Area, H x V (mm): |
|--------------|---------------------------|

|             |                 |
|-------------|-----------------|
| Sony IMX255 | Imaging Sensor: |
|-------------|-----------------|

|                       |                 |
|-----------------------|-----------------|
| Progressive Scan CMOS | Type of Sensor: |
|-----------------------|-----------------|

|        |               |
|--------|---------------|
| Global | Shutter Type: |
|--------|---------------|

|           |              |
|-----------|--------------|
| 10/12 bit | Pixel Depth: |
|-----------|--------------|

|            |                |
|------------|----------------|
| 10µs - 32s | Exposure Time: |
|------------|----------------|

|                                 |                     |
|---------------------------------|---------------------|
| 66.15 (Mode 0) / 71.03 (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: |
|---------|--------|

|  |                                                                             |
|--|-----------------------------------------------------------------------------|
|  | Mounting Threads:<br>¼-20 with Tripod Mount Adapter <a href="#">#88-057</a> |
|--|-----------------------------------------------------------------------------|

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

| Regulatory Compliance               |                             |
|-------------------------------------|-----------------------------|
| <a href="#">Exempt</a>              | RoHS 2015:                  |
| <a href="#">View</a>                | Certificate of Conformance: |
| <a href="#">Contains SVHC(s)</a>    | Reach 240:                  |
| 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