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# GS3-U3-89S6C-C 1" 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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Color **Spectrum:**

**General**

Color Camera **Type:**

GS3-U3-89S6C-C **Model Number:**

FLIR **Manufacturer:**

Grasshopper®3 **Camera Series:**

**Note:**  
Dimensions: Exclude ¼-20 Tripod Adapter and Lens Holder

## Physical & Mechanical Properties

**Dimensions (mm):**  
44 x 29 x 57.5 (excludes connectors and lens mount)

**Weight (g):**  
90

**Housing:**  
Full

## Sensor

**Image Buffer:**  
128MB

**Sensor Format:**  
1"

**Resolution (Megapixels):**  
8.90

**Frame Rate (fps):**  
43.00

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

**Pixel Size, H x V (µm):**  
3.45 x 3.45

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

**Imaging Sensor:**  
Sony IMX255

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
10/12 bit

**Exposure Time:**  
10µs - 32s

**Dynamic Range (dB):**  
66.15 (Mode 0) / 71.13 (Mode 7)

**Machine Vision Standard:**  
USB3 Vision v1.0

## Electrical

**Power Consumption (W):**  
4.5

## Hardware & Interface Connectivity

**Interface:**  
USB 3.0

**Connector:**  
USB 3.1 Gen 1, Micro-B with Screw Locks

**Power Supply:**  
Power over USB (required for operation) [#86-770](#) or via GPIO with [#86-784](#)

**GPIOs:**  
1 opto-isolated input, 2 opto-isolated outputs, 2 non-isolated bi-directional ports

**Synchronization:**  
Hardware Trigger (GPIO) or Software Trigger

**Interface Port Orientation:**  
Back Panel

**GPIO Connector Type:**  
8-pin Hirose (HR25)

## Threading & Mounting

**Mount:**  
C-Mount

**Mounting Threads:**  
¼-20 with Tripod Mount Adapter [#88-057](#)

## Environmental & Durability Factors

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

-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  
Distributor

### 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