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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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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):
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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:

Threading & Mounting

C-Mount	Mount:
1/4-20 with Tripod Mount Adapter #88-057	Mounting Threads:

Environmental & Durability Factors

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

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

Regulatory Compliance

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

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