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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 ⊕ £1,392⁰⁰

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Product Downloads

Color

Spectrum:

General

Type:

Color Camera

GS3-U3-51S5C-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:
2/3"

Resolution (Megapixels):
5.00

Frame Rate (fps):
75.00

Pixels (H x V):
2,448 x 2,048

Pixel Size, H x V (µm):
3.45 x 3.45

Sensing Area, H x V (mm):
8.45 x 7.07

Imaging Sensor:
Sony IMX250

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
10/12 bit

Exposure Time:
6µs - 32s

Dynamic Range (dB):
65.41 (Mode 0) / 71.27 (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

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