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GS3-U3-41C6NIR-C 1" FLIR Grasshopper®3 High Performance USB 3.0 NIR Camera

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



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NIR **Spectrum:**

General

NIR Camera **Type:**

GS3-U3-41C6NIR-C **Model Number:**

FLIR
Grasshopper®3

Manufacturer:
Camera Series:

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:

4.20

Resolution (Megapixels):

90.00

Frame Rate (fps):

2,048 x 2,048

Pixels (H x V):

5.5 x 5.5

Pixel Size, H x V (µm):

11.26 x 11.26

Sensing Area, H x V (mm):

CMOSIS CM4000

Imaging Sensor:

Progressive Scan CMOS

Type of Sensor:

Global

Shutter Type:

10 bit

Pixel Depth:

16µs - 7.03s

Exposure Time:

54.06

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) [#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:

5.00

Transfer Speed (Gbit/s):

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

[Exempt](#) **RoHS 2015:**

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

[Contains SVHC\(s\)](#) **Reach 240:**

Product Details

USB 3.0 cable (sold separately) is required for operation. Optional power supply ([#86-784](#)) available. Software available for [download](#).

- 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