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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)



Stock #89-526 **1 In Stock**

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1 MRP ₹1,63,548

Price inclusive of all taxes

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### Volume Pricing

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### Product Downloads

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

**Operating Temperature (°C):**

0 to +50

Storage Temperature (°C):

-30 to +60

## Regulatory Compliance

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

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

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

Canada **Country of Origin:**

**Imported By:**  
Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000

## 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