

[See all 23 Products in Family](#)

# GS3-U3-32S4M-C 1/1.8" FLIR Grasshopper®3 High Performance USB 3.0 Monochrome Camera

See More by [Teledyne FLIR](#)



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



Stock #33-534 **2 In Stock**

[Similar Cameras](#)

1 MRP ₹1,22,661

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1+	₹1,22,661 each
Need More?	<a href="#">Request Quote</a>

Note: This item requires accessories for use | [Learn More](#)

## Product Downloads

Monochrome

Spectrum:

## General

Monochrome Camera **Type:**

GS3-U3-32S4M-C **Model Number:**

FLIR **Manufacturer:**

Grasshopper®3 **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:**

1/1.8" **Sensor Format:**

3.20 **Resolution (Megapixels):**

121.00 **Frame Rate (fps):**

2,048 x 1,536 **Pixels (H x V):**

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

7.07 x 5.3 **Sensing Area, H x V (mm):**

Sony IMX252 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

10/12 bit **Pixel Depth:**

5µs - 32s **Exposure Time:**

65.31 (Mode 0) / 71.34 (Mode 7) **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:**

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

- 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