

GS3-U3-23S6C-C 1/1.2" FLIR Grasshopper®3 High Performance USB 3.0 Color Camera

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1 **MRP ₹1,25,316**

Price inclusive of all taxes

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



Volume Pricing	
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PDF Drawing	User Manual
EO Spec Sheet	

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

Spectrum: Color

General

Type: Color Camera	Model Number: GS3-U3-23S6C-C
Manufacturer: FLIR	Camera Series: Grasshopper®3

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: 1/1.2"
Resolution (Megapixels): 2.30	Frame Rate (fps): 162.00
Pixels (H x V): 1,920 x 1,200	Pixel Size, H x V (µm): 5.86 x 5.86
Sensing Area, H x V (mm): 11.25 x 7.03	Imaging Sensor: Sony IMX174
Type of Sensor: Progressive Scan CMOS	Shutter Type: Global
Pixel Depth: 10/12 bit	Exposure Time: 5µs - 31.9s
Dynamic Range (dB): 67.37	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)

Transfer Speed (Gbit/s): 5.00

Threading & Mounting

Mount: C-Mount

Mounting Threads: ¼-20 with Tripod Mount Adapter [#88-057](#)

Environmental & Durability Factors

Operating Temperature (°C): 0 to +50

Storage Temperature (°C): -30 to +60

Regulatory Compliance

RoHS 2015: [Exempt](#)

Certificate of Conformance: [View](#)

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

Country of Origin: Canada

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

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	Type-A to Micro-B, USB 3.1 Locking Cable, 3m		#86-770	₹2,655 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	Type-A to Micro-B, USB 3.1 Locking Cable, 5m		#88-058	₹4,036 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	Flea3/Grasshopper3 12V, 1.5A Power Supply		#86-784	₹9,346 Request Quote	2 In Stock <input type="text" value="1"/>
MORE+	Flea3/Grasshopper3 8-pin GPIO Hirose Connector		#86-771	₹3,398 Request Quote	2 In Stock <input type="text" value="1"/>
MORE+	Flea3/Grasshopper3 8-pin GPIO Hirose Connector Cable, 1m		#88-059	₹5,310 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	Flea3/Grasshopper3 8-pin GPIO Hirose Connector Cable, 4.5m		#88-060	₹6,053 Request Quote	2 In Stock <input type="text" value="1"/>
MORE+	Grasshopper3 Tripod Adapter		#88-057	₹1,274 Request Quote	4 In Stock <input type="text" value="1"/>
MORE+	USB 3.1 PCIe 2.0x1 2 Port Interface Card		#86-769	₹3,717 Request Quote	3 In Stock <input type="text" value="1"/>
MORE+	USB 3.1 PCIe 2.0x1 4 Port Interface Card		#89-539	₹8,496 Request Quote	9 In Stock <input type="text" value="1"/>
MORE+	USB 3.1 Hub 4 Port with Locking Screws and Power Supply		#89-540	₹16,992 Request Quote	3 In Stock <input type="text" value="1"/>
MORE+	8mm Focal Length, HP Series Fixed Focal Length Lens		#86-569	₹94,670 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	12mm Focal Length, HP Series Fixed Focal Length Lens		#86-570	₹72,216	15 In Stock <input type="text" value="1"/>

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				Request Quote	
MORE+	16mm Focal Length, HP Series Fixed Focal Length Lens		#86-571	₹72,216 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	25mm Focal Length, HP Series Fixed Focal Length Lens		#86-572	₹57,348 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	35mm Focal Length, HP Series Fixed Focal Length Lens		#86-573	₹57,348 Request Quote	1 In Stock <input type="text" value="1"/>
MORE+	50mm Focal Length, HP Series Fixed Focal Length Lens		#86-574	₹67,285 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	100mm C Series Fixed Focal Length Lens		#86-410	₹32,315 Request Quote	1 In Stock <input type="text" value="1"/>

Imaging Lens Selector

Imaging

Factory Automation
 Telecentric
 M12

Custom Sensor
 Camera Model
Camera Model:

Number of Horizontal Pixels:

Number of Vertical Pixels:

Pixel Size (µm):

Working Distance (mm):

Horizontal Field of View (mm):

[✓](#)

Disclaimer: Values represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.

Frequently Purchased Together



#33-300 - 4mm UC Series Fixed Focal Length Lens
₹25,943

Qty



#33-534 - GS3-U3-32S4M-C 1/1.8" FLIR Grasshopper@3 High Performance USB 3.0 Monochrome Camera
₹1,22,661

Qty



#33-981 - Basler ace acA1920-40uc Color USB 3.0 Camera
₹64,782

Qty



#27-507 - 125mm Dia x 500mm Focal Length, PCX Condenser Lens
₹14,024

Qty

Resources

Media Type

- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Technical Tool

APPLICATION NOTE

Sensor Performance and Limitations

APPLICATION NOTE

Imaging Electronics 101: Basics of Digital...

APPLICATION NOTE

Imaging Electronics 101: Camera Resolution fo...

APPLICATION NOTE

Imaging Electronics 101: Understandi...

VIDEO

How Do Cameras Work?

PUBLISHED ARTICLE

Advancements in Short Wave Infrared Sensors

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