

GS3-U3-89S6M-C 1" FLIR Grasshopper®3 High Performance USB 3.0 Monochrome Camera

#36-337



FLIR Grasshopper®3 High Performance USB 3.0 Cameras (Front)

FLIR® Grasshopper®3 High Performance USB 3.0 Cameras 측정, 계측 또는 검사를 포함한 요건이 까다로운 머신 비전 용도를 위해 설계된 고속의 14비트 이미징 카메라입니다. FLIR® Grasshopper®3 High Performance USB 3.0 Cameras에는 128MB 이미지 버퍼와 함께 2MB 플래시 메모리가 내장되어 있습니다. Color interpolation, gamma, lookup table 기능을 포함한 온보드 이미지 처리 외에도 별도로 포함된 이미지 캡처 소프트웨어 및 SDK를 이용해 추가 기능을 이용할 수 있습니다. USB 3.0 카메라는 Camera Link® 시스템을 대체할 수 있는 이상적인 제품입니다.

참고: 작동 시 USB 3.0 케이블이 필요합니다. Power supply (#86-784)는 별도로 구매 가능. 소프트웨어는 웹사이트에서 [다운로드](#) 가능. FLIR의 이전 제품명은 Point Grey입니다.

General

Type:	Monochrome Camera
Manufacturer:	FLIR
Note:	Dimensions: Exclude ¼-20 Tripod Adapter and Lens Holder
Camera Family:	Grasshopper®3
Model Number:	GS3-U3-89S6M-C

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
Imaging Sensor:	Sony IMX255
Type of Sensor:	Progressive Scan CMOS
Type of Shutter:	Global
Camera Sensor Format:	1"
Resolution (MegaPixels):	8.90
Pixels (H x V):	4,096 x 2,160
Pixel Size, H x V (µm):	3.45 x 3.45
Sensing Area, H x V (mm):	14.13 x 7.45
Frame Rate (fps):	43.00
Pixel Depth:	8/12/16 bit
Exposure Time:	10µs - 32s
Dynamic Range (dB):	66.15 (Mode 0) / 71.03 (Mode 7)
Machine Vision Standard:	USB3 Vision v1.0

Electrical

Power Consumption (W):	4.5
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Hardware & Interface Connectivity

Video Output:	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

Mounting Threads:

 $\frac{1}{4}$ -20 with Tripod Mount Adapter [#88-057](#)

Mount:

C-Mount

Environmental & Durability Factors

Operating Temperature (°C):

0 to +50

Storage Temperature (°C):

-30 to +60



June 22, 2025

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

재고 번호	제품설명
36-337	GS3-U3-89S6M-C 1" FLIR Grasshopper@3 High Performance USB 3.0 Monochrome Camera

This item is EU RoHS (2015/863/EU) exempt based on **Exemption 6c**: Copper alloy containing up to 4% lead by weight, **Exemption 7a**: lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead), and **Exemption 7c-I**: electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance
June 22, 2025

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com



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재고 번호

36-337

제품설명

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Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



Jeff Harvey- EVP of Operations



June 22, 2025

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This item contains substances listed on the REACH SVHC list as of 23 January 2024 in quantities exceeding 0.1% weight by weight, please contact compliance@edmundoptics.com if you require more information.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts "non-hazardous" glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

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