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Grasshopper3 GigE

Model: GS3-PGE-23S6M-C: 2.3 MP, 48 FPS, Sony IMX174, Mono

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The Grasshopper®3 GigE camera family utilizes primarily Sony CCD sensors and the Sony Pregius IMX174 sensor. For FLIR GigE cameras with the latest sensors and most advanced feature sets, please refer to our Blackfly S and Oryx camera families.

PRODUCT VARIATIONS:

GS3-PGE-23S6M-C: 2.3 MP, 48 FPS, Sony | ▼

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SPECIFICATIONS

OVERVIEW

Frame Rate	48
Lens Mount	C-mount
Pixel Size	5.86
Quantum Efficiency	77 (Mode 0) / 77(Mode 7) (% at 525 nm)
Resolution	1920 × 1200
Sensor Type	CMOS
Sensor Format	1/1.2"
ADC	10-bit, 12-bit
Chroma	Mono
Megapixels	2.3
Readout Method	Global shutter
Sensor Name	Sony IMX174
Required Accessories	Lens, Cable, Host Adapter (GigE)
Part Number	GS3-PGE-23S6M-C

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FPS, Sony IMX174, Mono

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Compliance
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CE, FCC, KCC, RoHS. The ECCN for this product is: EAR099.



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ENVIRONMENTAL

Operating Humidity	20 to 80% (no condensation)
Operating Temperature	0° to 50°C
Storage Humidity	20 to 95% (no condensation)
Storage Temperature	-30° to 60°C

FEATURES

Image Processing	Gamma, lookup table, hue, saturation, and sharpness
Serial Port	1 (over non-isolated I/O)
Flash Memory	2 MB non-volatile memory
Image Buffer	128 MB
Trigger Modes	Standard, bulb, overlapped, multi-shot
User Sets	2 user configuration sets for custom camera settings
Exposure Range	0.017 ms to 32 seconds
Gain Range	0 dB to 29.9 dB
Partial Image Modes	Pixel binning, ROI

PERFORMANCE

Absolute Sensitivity Threshold (γ)	20.42 (Mode 0) / 9.75 (Mode 7)
Saturation Capacity (e-)	32488 (Mode 0) / 32691 (Mode 7)

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1 FPS, Sony IMX174, Mono

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Dynamic Range dB
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14.74 (Mode 0) / 6.83 (Mode 7)

66.57 (Mode 0) / 72.99 (Mode 7)

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3.3 V, 150 mA maximum

Mass

90 grams

Interface

GigE PoE

Non-isolated I/O Ports

2 bi-directional

Opto-isolated I/O Ports

1 input, 1 output

Dimensions [W x H x L]

44 mm x 29 mm x 58 mm

POWER

Power Requirements

Power over Ethernet (PoE), or 12 V nominal (8 - 24 V) via GPIO

RECOMMENDED SYSTEM CONFIGURATION

Accessories included

Tripod Mount Adapter (ACC-01-0011)

Hard Drive

200 MB hard drive space

RAM

2 GB RAM or more

Power Sourcing
Equipment

PoE Interface Card / Injector/ Switch or Camera Power Supply(12v
1.5A, 8-pin Hirose)

Port

Gigabit Ethernet Port

Operating System

Windows or Linux (32-bit or 64-bit)

CPU

3.1 GHz or equivalent CPU

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Grasshopper3 USB3



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