

GS3-U3-51S5M-C 2/3" FLIR Grasshopper®3 High Performance USB 3.0 Monochrome Camera

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



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Video Output:
USB 3.0

Type: Monochrome Camera
Manufacturer: FLIR
Mounting Threads: ¼-20 with Tripod Mount Adapter #88-057
Image Buffer: 128MB
Camera Family: Grasshopper®3
Model Number: GS3-U3-51S5M-C
Imaging Sensor: Sony IMX250
Type of Sensor: Progressive Scan CMOS
Type of Shutter: Global
Camera Sensor Format: 2/3"
Resolution (MegaPixels): 5.00
Pixels (H x V): 2,448 x 2,048
Pixel Size, H x V (µm): 3.45 x 3.45
Sensing Area, H x V (mm): 8.45 x 7.07
Frame Rate (fps): 75.00
Pixel Depth: 8/12/16 bit
Exposure Time: 6µs - 32s
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
Power Consumption (W): 4.5
GPIOs: 1 opto-isolated input, 2 opto-isolated outputs, 2 non- isolated bi-directional ports
Synchronization: Hardware Trigger (GPIO) or Software Trigger
Dimensions (mm): 44 x 29 x 57.5 (excludes connectors and lens mount)
Weight (g): 90
Mount: C-Mount
Housing: Full
Interface Port Orientation: Back Panel
Dynamic Range (dB): 65.20 (Mode 0) / 71.15 (Mode 7)
Operating Temperature (°C): 0 to +50
Storage Temperature (°C): -30 to +60
GPIO Connector Type: 8-pin Hirose (HR25)
Machine Vision Standard: USB3 Vision v1.0
Transfer Speed (Gbit/s): 5.00

Regulatory Compliance

RoHS 2015: Exempt
Reach 224:

Contains SVHC(s)

Certificate of Conformance:
[View](#)

