

# GS3-U3-41C6C-C 1" FLIR Grasshopper®3 High Performance USB 3.0 Color Camera

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



Stock **#88-514** 3-4 DAYS

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1



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**Video Output:**  
USB 3.0

**Type:**  
Color Camera

|                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Manufacturer:</b><br>FLIR                                                                                                        |
| <b>Mounting Threads:</b><br>¼-20 with Tripod Mount Adapter <a href="#">#88-057</a>                                                  |
| <b>Image Buffer:</b><br>128MB                                                                                                       |
| <b>Camera Family:</b><br>Grasshopper®3                                                                                              |
| <b>Model Number:</b><br>GS3-U3-41C6C-C                                                                                              |
| <b>Imaging Sensor:</b><br>CMOSIS CM4000                                                                                             |
| <b>Type of Sensor:</b><br>Progressive Scan CMOS                                                                                     |
| <b>Type of Shutter:</b><br>Global                                                                                                   |
| <b>Camera Sensor Format:</b><br>1"                                                                                                  |
| <b>Resolution (MegaPixels):</b><br>4.20                                                                                             |
| <b>Pixels (H x V):</b><br>2,048 x 2,048                                                                                             |
| <b>Pixel Size, H x V (µm):</b><br>5.5 x 5.5                                                                                         |
| <b>Sensing Area, H x V (mm):</b><br>11.26 x 11.26                                                                                   |
| <b>Frame Rate (fps):</b><br>90.00                                                                                                   |
| <b>Pixel Depth:</b><br>8/12/16/24 bit                                                                                               |
| <b>Exposure Time:</b><br>16µs - 7.03s                                                                                               |
| <b>Connector:</b><br>USB 3.1 Gen 1, Micro-B with Screw Locks                                                                        |
| <b>Power Supply:</b><br>Power over USB (required for operation) <a href="#">#86-770</a> or<br>via GPIO with <a href="#">#86-784</a> |
| <b>Power Consumption (W):</b><br>4.5                                                                                                |
| <b>GPIOs:</b><br>1 opto-isolated input, 2 opto-isolated outputs, 2 non-<br>isolated bi-directional ports                            |
| <b>Synchronization:</b><br>Hardware Trigger (GPIO) or Software Trigger                                                              |
| <b>Dimensions (mm):</b><br>44 x 29 x 57.5 (excludes connectors and lens mount)                                                      |
| <b>Weight (g):</b><br>90                                                                                                            |
| <b>Mount:</b><br>C-Mount                                                                                                            |
| <b>Housing:</b><br>Full                                                                                                             |
| <b>Interface Port Orientation:</b><br>Back Panel                                                                                    |
| <b>Dynamic Range (dB):</b><br>54.84                                                                                                 |
| <b>Operating Temperature (°C):</b><br>0 to +50                                                                                      |
| <b>Storage Temperature (°C):</b><br>-30 to +60                                                                                      |
| <b>GPIO Connector Type:</b><br>8-pin Hirose (HR25)                                                                                  |
| <b>Machine Vision Standard:</b><br>USB3 Vision v1.0                                                                                 |
| <b>Transfer Speed (Gbit/s):</b><br>5.00                                                                                             |

## Regulatory Compliance

|                                                       |
|-------------------------------------------------------|
| <b>RoHS 2015:</b><br><a href="#">Exempt</a>           |
| <b>Reach 224:</b><br><a href="#">Contains SVHC(s)</a> |
| <b>Certificate of Conformance:</b>                    |

