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# BFS-U3-63S4M-C USB 3.1 Blackfly® S, Monochrome Camera

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FLIR Blackfly® S USB3 Camera (front)



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**Video Output:**

USB 3.1 Gen 1

**Type:**

Monochrome Camera

|                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------|
| <b>Manufacturer:</b><br>FLIR                                                                                        |
| <b>Mounting Threads:</b><br>¼-20 with Tripod Mount Adapter <a href="#">#88-210</a>                                  |
| <b>Image Buffer:</b><br>240MB                                                                                       |
| <b>Camera Family:</b><br>Blackfly® S                                                                                |
| <b>Model Number:</b><br>BFS-U3-63S4M-C                                                                              |
| <b>Imaging Sensor:</b><br>Sony IMX178                                                                               |
| <b>Type of Sensor:</b><br>Progressive Scan CMOS                                                                     |
| <b>Type of Shutter:</b><br>Rolling                                                                                  |
| <b>Camera Sensor Format:</b><br>1/1.8"                                                                              |
| <b>Resolution (MegaPixels):</b><br>6.30                                                                             |
| <b>Pixels (H x V):</b><br>3,072 x 2,048                                                                             |
| <b>Pixel Size, H x V (µm):</b><br>2.4 x 2.4                                                                         |
| <b>Sensing Area, H x V (mm):</b><br>7.37 x 4.92                                                                     |
| <b>Frame Rate (fps):</b><br>59.60                                                                                   |
| <b>Pixel Depth:</b><br>10/14 bit                                                                                    |
| <b>Exposure Time:</b><br>8µs - 30s                                                                                  |
| <b>Connector:</b><br>USB 3.1 Gen 1, Micro-B with Screw Locks                                                        |
| <b>Power Supply:</b><br>Power over USB or via GPIO with <a href="#">#88-063</a>                                     |
| <b>Power Consumption (W):</b><br>3                                                                                  |
| <b>GPIOs:</b><br>1 opto-isolated input, 1 opto-isolated output, 1 non-isolated bi-directional, 1 non-isolated input |
| <b>Synchronization:</b><br>Hardware Trigger (GPIO) or Software Trigger                                              |
| <b>Dimensions (mm):</b><br>29 x 29 x 30 (excludes connectors and lens mount)                                        |
| <b>Weight (g):</b><br>36                                                                                            |
| <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>73.73                                                                                 |
| <b>Operating Temperature (°C):</b><br>0 to +50                                                                      |
| <b>Storage Temperature (°C):</b><br>-30 to +60                                                                      |
| <b>GPIO Connector Type:</b><br>6-pin Hirose (HR10)                                                                  |
| <b>Machine Vision Standard:</b><br>USB3 Vision v1.0                                                                 |

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><br><a href="#">View</a> |

