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FLIR BLACKFLY S

P/N: BFS-U3-04S2, USB3 VISION





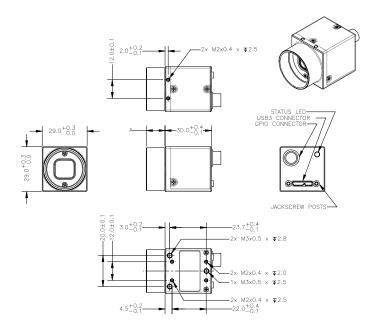
SMALL PACKAGE, POWERFUL RESULTS

The Blackfly S combines the newest CMOS image sensors with our new and intuitive Spinnaker software development kit. The many new advanced camera features are designed to meet your complex imaging needs and speed up development time.

KEY FEATURES

- Leverage the latest **CMOS sensors** and new on-camera image processing features. Harness increased **binning** flexibility, powerful **auto-exposure** controls and robust **color transformation** tools.
- Improve cycle time using advanced camera controls and programmable logic Utilize sequencer, chunk data, event notification, counters, timers and logic blocks.
- Accelerate your time to market using our GenlCam3 API, GUI API library, detailed API logging and comprehensive documentation.







Specifications

| | BFS-U3-04S2M-CS | BFS-U3-04S2C-CS |
|-------------------------|--|--|
| Resolution | 720×540 | |
| Frame Rate* | 522 FPS | |
| Megapixels | 0.4 MP | |
| Chroma | Mono | Color |
| Sensor | Sony IMX287, CMOS, 1/2.9" | |
| Readout Method | Global shutter | |
| Pixel Size | 6.9 µm | |
| Lens Mount | CS-mount | |
| ADC | 8-bit, 10-bit, and 12-bit | |
| Minimum Frame Rate** | 1 FPS | |
| Gain Range** | 0 to 47 dB | |
| Exposure Range** | 4 µs to 30 s | |
| Acquisition Modes | Continuous, Single Frame, Multi Frame | |
| Partial Image Modes | Pixel binning, decimation, ROI | |
| Image Processing | Gamma, lookup table, and sharpness | Color correction matrix, gamma, lookup table, saturation, and sharpness |
| Sequencer | Up to 8 sets using 2 features | |
| Image Buffer | 240 MB | |
| User Sets | 2 user configuration sets for custom camera settings | |
| Flash Memory | 6 MB non-volatile memory | |
| Opto-isolated I/O | 1 input, 1 output | |
| Non-isolated I/O | 1 bi-directional, 1 input | |
| Auxiliary Output | 3.3 V, 120 mA maximum | |
| Interface | USB 3.1 Gen 1 | |
| Power Requirements | 8 - 24 V via GPIO or 5 V via USB3 interface | |
| Power Consumption | 3 W maximum | |
| Dimensions/Mass | 29 mm x 29 mm x 30 mm / 36 g | |
| Machine Vision Standard | USB3 Vision v1.0 | |
| Compliance | CE, FCC, KCC, RoHS, REACH. The ECCN for this product is: EAR099. | |
| Temperature | Operating: 0°C to 50°C Storage: -30°C to 60°C | |
| Humidity | Operating: 20% to 80% (no condensation) Storage: 30% to 95% (no condensation) | |
| Warranty | 3 years | |

^{*}Frame rates are measured with Device Link Throughput Limit of 380 MBps and Acquisition Frame Rate disabled. Values are rounded down to whole numbers.

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 $[\]ensuremath{^{*\,*}}\xspace\ensuremath{^{Values}}\xspace$ are the same in binning and no binning modes.