

## FLIR BLACKFLY'S BOARD-LEVEL

P/N: BFS-GE-88S6-BD2
SMALL PACKAGE, POWERFUL RESULTS
The FLIR Blackfly S Board Level variants are high performance, machine vision, area scan cameras designed for embedding into tight spaces. Unlike many board level cameras, it boasts a rich feature set applied to the latest CMOS sensors; the same feature set as the cased version. It is ready for integration with proven compatibility with popular SBCs and SOMs.
The Blackfly $S$ board level models enable OEMs to develop smaller, lighter, and lower cost solutions with embedded system connectivity and rich features.
www.flir.com/products/blackfly-s-board-level


DESIGNED FOR INTEGRATION IN SMALL SPACES

These models are ideal for mobile, handheld and desktop device integration with their $29 \times 29 \times 12 \mathrm{~mm}$ board level footprint, USB3 or GigE across FPC connection with latching connector, and low profile JST GPIO connector, and no fixed lens mount.

## Giǵan Gen<i>CAM



HIGH PERFORMANCE IMAGING

It is rare for board level cameras to integrate the most advanced CMOS sensors and come with a full feature set. The Blackfly S board level variants integrate the latest Pregius global shutter CMOS image sensors for distortion free, high dynamic range image capture.
They have the same rich feature set as the cased variants allowing both automatic and precise manual control over image capture and on-camera preprocessing.


EMBEDDED ECO-SYSTEM SUPPORT

Ideal of embedded systems, the entire Blackfly S camera family provides proven compatibility with popular SBCs and Operating Systems including desktop Windows and Linux on ARM, x 64 and x 86 .

| Resolution | $4096 \times 2160$ |  |
| :--- | :---: | :--- |
| Frame Rate ${ }^{*}$ | 13 FPS |  |
| Megapixels $^{\text {Chroma }}$ | 8.9 MP |  |
| Sensor | Mono | Color |
| Readout Method | Sony IMX267, CMOS, 1" |  |
| Pixel Size | Global shutter |  |
| Lens Mount | $3.45 ~ \mu \mathrm{~m}$ |  |
| ADC | Sold separately |  |
| Minimum Frame Rate** | 12 -bit |  |
| Gain Range** | 1 FPS |  |
| Exposure Range** | 0 to 47 dB |  |
| Acquisition Modes | 36 us to 30 s |  |
| Partial Image Modes | Continuous, Single Frame, Multi Frame |  |

Image Processing Gamma, lookup table, and sharpness Color correction matrix, gamma, Iookup
Sequencer Up to 8 sets using 6 features

| Image Buffer | 240 MB |
| :--- | :---: |
| User Sets | 2 user configuration sets for custom camera settings |
| Flash Memory | 1 MB non-volatile memory |
| Non-isolated I/O | 3 bi-directional |
| Serial Port | Supported |
| Auxiliary Output | $3.3 \mathrm{~V}, 120 \mathrm{~mA}$ maximum |
| Interface | GigE |
| Interface Connector | Hirose TF38 FPC connector |
| Power Requirements | 5 V nominal (4-5.5 V) via GPIO |
| Power Consumption | 3 W maximum |
| Dimensions/Mass | $29 \mathrm{~mm} \times 29 \mathrm{~mm} \times 10 \mathrm{~mm} / 10 \mathrm{~g}$ |
| Machine Vision Standard | GigE Vision v1.2 |
| Compliance | CE, FCC, RoHS, REACH. The ECCN for this product is: EAR099. |
| Temperature | Operating: $0^{\circ} \mathrm{C}$ to $50^{\circ} \mathrm{C}$ |


| Humidity | Operating: $20 \%$ to $80 \%$ (no condensation) <br> Storage: $30 \%$ to $95 \%$ (no condensation) |
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## Warranty

## 3 years

*Frame rates are measured with Device Link Throughput Limit of 125 MBps and Acquisition Frame Rate disabled. Values are rounded down to whole numbers.
**Values are the same in binning and no binning modes.

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FIND THE BEST BLACKFLY S FOR YOUR NEEDS


The World's Sixth Sense ${ }^{*}$

