

BLACKFLY® S GigE

Industrial Machine Vision Camera | BFS-PGE-23S6M/C-C

KEY FEATURES

Field Proven Sensor

Harness the power of a field proven sensor with the Sony IMX249 global shutter sensor for scientific imaging and medical applications. Experience its large 5.86 μm pixel size, large full well capacity with superior dynamic range.

Advanced Camera Control

Explore the capabilities of advanced camera control through the sophisticated features offered on the camera. Automate tasks effortlessly with tools like the Sequencer, Logic Blocks, Counters and Timers, enhancing efficiency and precision.

Reduce Data Throughput

Optimize your system's performance effortlessly with our Lossless Compression feature. Reduce data throughput without sacrificing quality, ensuring an efficient workflow.

Lens Shading Correction

Correct the imaging artifact of lens shading with our proprietary lens shading correction feature. It utilizes a calibrated image based on the optics and lighting used in the application, ensuring uniform and flawless visuals without any unwanted shading.

APPLICATIONS

- Food and Beverage
- Lens Inspection
- Microscopy
- Scientific imaging

Small Package, Powerful Results

Introducing the Blackfly S camera from Teledyne FLIR, now equipped with the well-regarded Sony IMX249 sensor, renowned for its exceptional imaging performance even in challenging light conditions, as well as its versatile Near-IR performance under the right lighting conditions. This potent combination delivers unparalleled image quality, empowering you to effortlessly capture precise images tailored to your specific project needs.

The Blackfly S camera is valued for its compact design and superior performance in machine vision technology. One of the standout features of the Blackfly S camera is its Lossless Compression (LLC) capability, which optimizes data transmission without compromising image quality. This approach, coupled with advanced automated and manual controls, provides you with unparalleled flexibility and efficiency in imaging tasks.

Additionally, the Blackfly S camera ensures a smooth transition for system designers upgrading from previous models, offering enhanced functionalities while maintaining compatibility and form factor. This approach enables an easy upgrade, making it the ideal choice for upgrading your imaging capabilities without the hassle of major system adjustments.



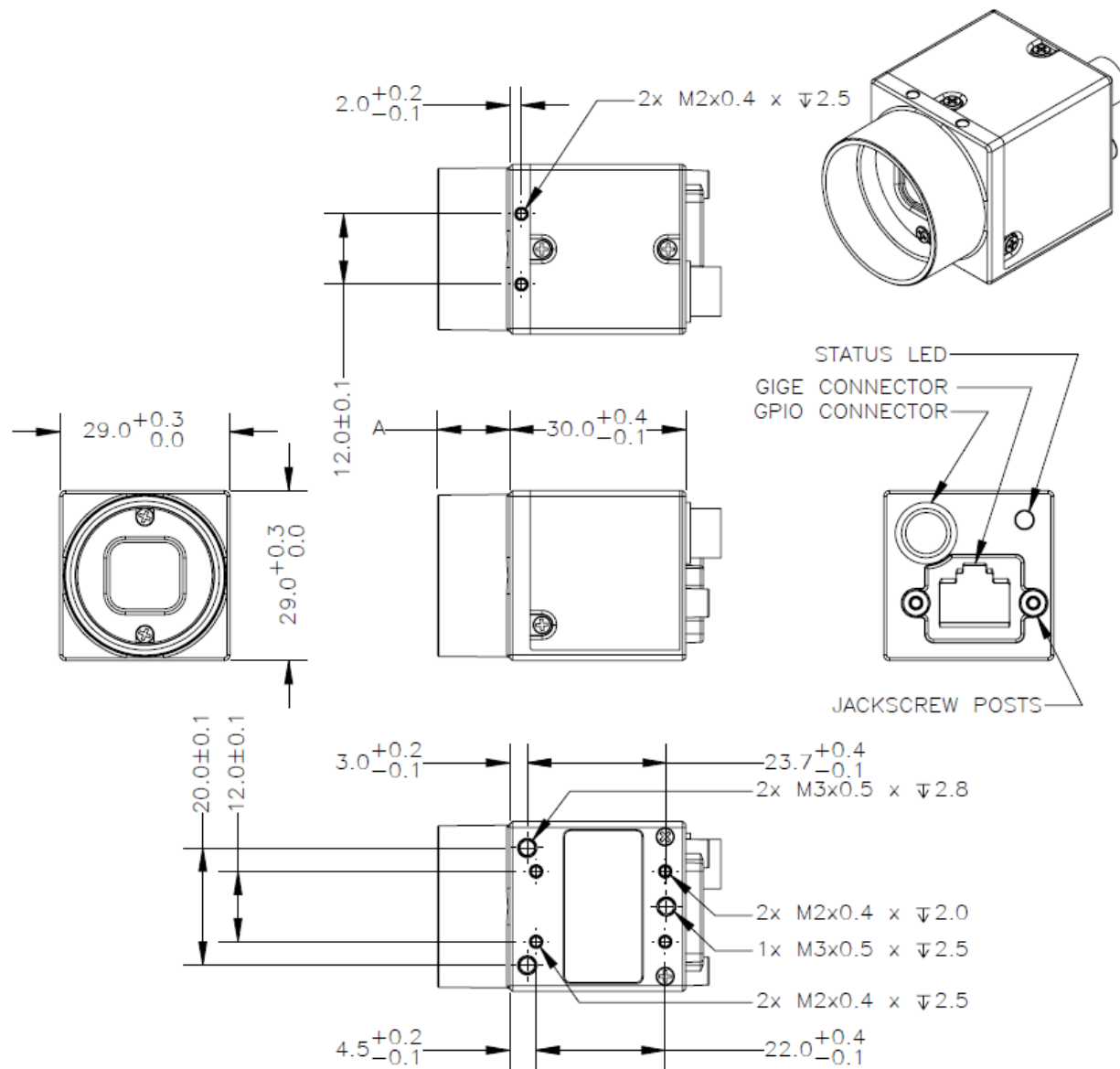
Product appearance and specifications are subject to change without notice

SPECIFICATIONS

| | BFS-PGE-23S6M | BFS-PGE-23S6C |
|-----------------------------------|---|---|
| Resolution | 1920 x 1200 | |
| Base Frame Rate | 41 FPS | |
| Lossless Compression | Supported | |
| Megapixels | 2.3 MP | |
| Sensor | Sony IMX249, CMOS, 1/1.2" | |
| Readout Method | Global Shutter | |
| Pixel Size | 5.86 μ m | |
| Spectrum | Mono | Color |
| Lens Mount | C-mount | |
| ADC | 10-bit / 12-bit | |
| Minimum Frame Rate* | 1 FPS | |
| Gain Range* | 0 – 47 dB | |
| Exposure Range* | 33 μ s to 30 seconds | |
| Acquisition Modes | Continuous, Single Frame, Multi Frame | |
| Partial Image Modes | Pixel binning, Region of Interest | |
| Image Processing | Gamma, lookup table, and sharpness | Color correction matrix, gamma, lookup table, saturation, and sharpness |
| Image Buffer | 240 MB | |
| Sequencer | Up to 8 sets using 6 features | |
| 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 | |
| Serial Port | 1 over non-isolated I/O | |
| Auxiliary Output | 3.3 V 120 mA maximum | |
| Interface | 1 Gigabit Ethernet PoE | |
| Power Requirements | Power over Ethernet (PoE); or 12 V nominal (8 - 24 V) | |
| Power Consumption | 3.5 W maximum PoE | |
| Dimensions / Mass | 29 mm x 29 mm x 30 mm / 36 g | |
| Machine Vision Standard | GigE Vision v1.2 | |
| Compliance | CE, FCC, KCC, RoHS, REACH. The ECCN for this product is: EAR099 | |
| Temperature | Operating: 0°C to 50° / Storage: -30°C to 60°C | |
| Humidity (no condensation) | Operating: 20% - 80% / Storage: 20% - 95% | |
| Warranty | 3 years | |

*Values are the same in binning and no binning modes

DRAWING



For more information please contact:

BOCK OPTONICS INC.
 14 Steinway Blvd., Unit 7
 Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

This document does not contain information whose export/transfer/disclosure is restricted by the Canadian Export Control regulation. Teledyne FLIR reserves the right to make changes at any time without notice.
 © 2024 Teledyne FLIR