BLACKFLY S

Industrial Machine Vision Camera | BFS-PGE-04S2

KEY FEATURES

The Latest CMOS Sensors
Switch between high sensitivity and low noise, or high saturation capacity and dynamic range with selectable conversion gain.

Improve Cycle Times & Output
Automate more with advanced camera controls, event notifications, chunk data, counters and timers. Increase system output without compromising quality using our Lossless Compression (LLC) feature.

Accelerate Your Time To Market
Teledyne FLIR IIS's GenICam3 API with GUI library, and detailed event logging is supported by comprehensive documentation.

APPLICATIONS

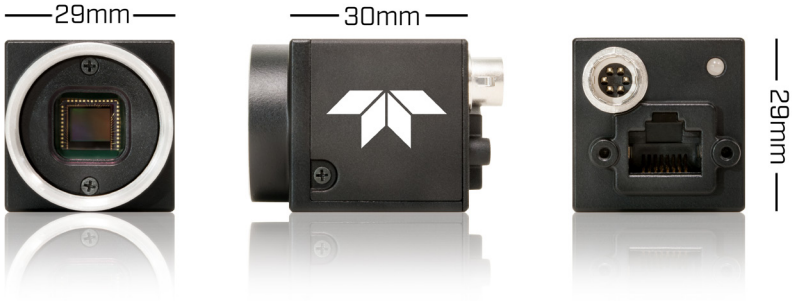
- Automated Optical Inspection
- Microscopy
- Robot Guidance
- Laser Beam Profiling
- Autonomous Vehicle Guidance

Small Package, Powerful Results

The Teledyne FLIR IIS Blackfly S is a compact, high performance machine vision camera that enables system designers to easily generate the exact images they need.

Teledyne FLIR IIS GigE cameras featuring Lossless Compression (LLC) are designed to deliver higher maximum frame rates and lower data transmission over the link, without compromising on image quality. With both automatic and precise manual control over image capture and on-camera preprocessing, the Teledyne FLIR IIS Blackfly S accelerates application development.





SPECIFICATIONS

	BFS-PGE-04S2M-CS	BFS-PGE-04S2C-CS
Resolution	720 x 540	
Frame Rate	291 fps / 350 fps with Lossless Compression	
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	GigE PoE	
Power Requirements	Power over Ethernet (PoE), or 12 V nominal (8 - 24 V) via GPIO	
Power Consumption	3 W maximum (2.8 W nominal)	
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°C Storage: -30°C to 60°C	
Humidity	Operating: 20% to 80% (no condensation) / Storage: 30% to 95% (no condensation)	
Warranty	3 years	

*Values are the same in binning and no binning modes.

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