

CADEPT SMARTER IMAGING FOR BETTER LIVES Perth: (08) 9242 5411 Melbourne: (03) 9384 1775 Sydney: (02) 9905 1551 RNKE

Email: sales@adeptturnkey.com.au Web site: www.adept.net.a



### **INDUSTRIAL/MACHINE VISION APPLICATIONS**

# FLIR BLACKFLY<sup>®</sup>S

### P/N BFS-PGE-63S4

### SMALL PACKAGE, POWERFUL RESULTS

The Blackfly S is a compact, high performance machine vision camera that allows designers to easily produce the exact images they need. With both automatic and precise manual control over image capture and on-camera pre-processing, the Blackfly S accelerates application development.

www.flir.com/mv

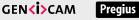
### FEATURES

THE LATEST CMOS SENSORS Switch between high sensitivity and low noise, and high saturation capacity and dynamic range with selectable conversion gain.

**IMPROVE CYCLE TIMES** Automate more with advanced camera controls, event notifications, chunk data, counters and timers.

ACCELERATE YOUR TIME TO MARKET FLIR's GenICam3 API with GUI library, and detailed event logging is supported by comprehensive documentation.

## GiG



AUTOMATED OPTICAL INSPECTION MICROSCOPY ROBOT GUIDANCE

LASER BEAM PROFILING

APPLICATIONS

AUTONOMOUS VEHICLE GUIDANCE

SPECS	BFS-PGE-63S4M-C	BFS-PGE-63S4C-C
Resolution	3072 x 2048	
Frame Rate	19 FPS / 48 FPG with Lossless Compression	
Megapixels	6.3 MP	
Chroma	Mono	Color
Sensor	Sony IMX178, CMOS, 1/1.8"	
Readout Method	Rolling shutter with global reset	
Pixel Size	2.4 µm	
Lens Mount	C-mount	
ADC	10-bit / 12-bit / 14-bit	
Minimum Frame Rate*	1 FPS	
Gain Range*	0 to 47 dB	
Exposure Range*	14 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 5 features, including exposure and gain	
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	
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	

 $\ast\ast\mathsf{Values}$  are the same in binning and no binning modes.

### FLIR Integrated Imaging Solutions

#### CANADA

12051 Riverside Way Richmond, BC, Canada V6W 1K7 T: +1 866.765.0827 (toll free) T: +1 604.242.9937 F: +1 604.242.9938 E: mv-sales@flir.com www.flir.com/mv

### USA

T: +1 866.765.0827 (toll free) E: mv-na-sales@flir.com

### EUROPE

T: +49 7141 488817-0 F: +49 7141 488817-99 E: mv-eusales@flir.com

### CHINA

T: +86 10 8215 9938 F: +86 10 8215 9936 E: mv-chinasales@flir.com

ASIA E: mv-asiasales@flir.com www.flir.com NASDAQ: FLIR

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VN: BFS-PGE-63S4-v2

FIND THE BEST BLACKFLY S FOR YOUR NEEDS



