



INDUSTRIAL/MACHINE VISION APPLICATIONS

FLIR BLACKFLY[®] S

P/N BFS-PGE-14Y3

SMALL PACKAGE, POWERFUL RESULTS

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

FLIR 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 pre-processing, the FLIR Blackfly S accelerates application development.

www.flir.com/mv

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

FLIR'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

BFS-PGE-14Y3M-C

Resolution	1280 x 1024
Frame Rate	92 FPS / 150 FPS with Lossless Compression
Megapixels	1.3 MP
Chroma	Mono
Sensor	OnSemiP1300P1,CMOS,1/2"
Readout Method	Global shutter
Pixel Size	4.8 μ m
Lens Mount	C-mount
ADC	10-bit
Minimum Frame Rate*	1 FPS
Gain Range*	0 to 18 dB
Exposure Range*	6 μ s to 30 s
Acquisition Modes	Continuous, Single Frame, Multi Frame
Partial Image Modes	Pixel binning, decimation, ROI
Image Processing	Gamma, lookup table, and sharpness
Sequencer	Up to 8 sets using 6 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	2.9 W maximum PoE, 2.4 W maximum GPIO
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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FIND THE BEST BLACKFLY S
FOR YOUR NEEDS



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Everywhere you look™