



INDUSTRIAL/MACHINE VISION APPLICATIONS

FLIR BLACKFLY'S

P/N BFS-PGE-51S5P

ENABLE NEW APPLICATIONS WITH ON-SENSOR POLARIZING FILTERS

See the world in a whole new way with the FLIR BFS-PGE-51S5P-C. Sony's new IMX250MZR with on-sensor polarizing filters adds polarimetry to the FLIR Blackfly S already powerful feature-set. The GigE interface enables a global shutter readout at 24 FPS in a compact, low power package. This camera is ideal for building the next generation of polarimetry based industrial, traffic and UAS applications.

www.flir.com/mv

FEATURES

Dynamically remove reflections from multiple light sources to improve the contrast of transparent and reflective objects.

FLIR's Spinnaker SDK supports visualization and output of polarimetric image data.

Proven combability with popular ARM and x64 SBCs, operating systems, and software ensures support for an entire ecosystem of embedded systems.

APPLICATIONS

SURFACE INSPECTION

QUALITY INSPECTION OF COMPOSITE MATERIALS

DRIVER MONITORING FOR TRAFFIC ENFORCEMENT

MEASURING INTERNAL STRESSES IN PLASTIC PARTS









SPECS	BFS-PGE-51S5P-C	BFS-PGE-51S5PC-C	
Resolution	2448 x 2048		
Frame Rate	24 FPS / 39 FPS with Lossless Compression		
Megapixels	5.0 MP		
Chroma	Polarized	Polarized Color	
Sensor	Sony IMX250MZR, CMOS, 2/3"	Sony IMX250MYR, CMOS, 2/3'	
Readout Method	Global shutter		
Pixel Size	3.45 μm		
Lens Mount	C-mount		
ADC	10-bit and 12-bit		
Minimum Frame Rate*	1 FPS		
Gain Range*	0 to 47 dB		
Exposure Range*	25 μs to 30 s		
Acquisition Modes	Continuous, Single Frame, Multi Frame		
Partial Image Modes	Pixel binning, decimation, ROI		
Image Processing	Gamma		
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		
Serial Port	Supported		
Time Synchronization	IEEE 1588 PTP		
Auxiliary Output	3.3 V, 120 mA maximum		
Interface	GigE PoE		
Power Requirements	Power over Ethernet (PoE), or 1	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)		







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

Warranty

For more information please contact:



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3 years

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VN: BFS-PGE-51S5P-v2

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