



SMARTER IMAGING FOR BETTER LIVES

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INDUSTRIAL/MACHINE VISION APPLICATIONS

FLIR BLACKFLY S

P/N BFS-U3-122S6

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.



APPLICATIONS

AUTOMATED OPTICAL INSPECTION MICROSCOPY ROBOT GUIDANCE LASER BEAM PROFILING AUTONOMOUS VEHICLE GUIDANCE

:-C	BFS-U3-122S6C-C	BFS-U3-122S6M-C	SPECS
	4096 x 3000		Resolution
	23 FPS		Frame Rate*
	12.3 MP		Megapixels
	Color	Mono	Chroma
	Sony IMX304, CMOS, 1.1"		Sensor
	Global shutter		Readout Method
	3.45 µm		Pixel Size
	C-mount		Lens Mount
	12-bit		ADC
	1 FPS		Minimum Frame Rate**
	0 to 47 dB		Gain Range**
	14 µs to 30 s		Exposure Range**
	Continuous, Single Frame, Multi Frame		Acquisition Modes
	Pixel binning, decimation, ROI		Partial Image Modes
•	Color correction matrix, gamma table, saturation, and sharp	Gamma, lookup table, and sharpness	Image Processing
	using 6 features	Up to 8 sets u	Sequencer
	240 MB		Image Buffer
	2 user configuration sets for custom camera settings		User Sets
6 MB non-volatile memory		Flash Memory	
1 input, 1 output		Opto-isolated I/O	
	1 bi-directional, 1 input		Non-isolated I/O
3.3 V, 120 mA maximum		Auxiliary Output	
USB 3.1 Gen 1		Interface	
8 - 24 V via GPIO or 5 V via USB3 interface		Power Requirements	
3 W maximum		Power Consumption	
29 mm x 29 mm x 30 mm / 36 g		Dimensions/Mass	
USB3 Vision v1.0		Machine Vision Standard	
CE, FCC, KCC, RoHS, REACH. The ECCN for this product is: EAR099.		Compliance	
Operating: 0°C to 50°C Storage: -30°C to 60°C		Temperature	
Operating: 20% to 80% (no condensation) Storage: 30% to 95% (no condensation)		Humidity	
3 years		Warranty	
	/ision v1.0 ne ECCN for this product is: EA g: 0°C to 50°C -30°C to 60°C 80% (no condensation) 5% (no condensation)	USB3 V CE, FCC, KCC, RoHS, REACH. The Operating: Storage: -3 Operating: 20% to 8 Storage: 30% to 95	Dimensions/Mass Machine Vision Standard Compliance Temperature Humidity

*Frame rates are measured with Device Link Throughput Limit of 380 MBps and Acquisition Frame Rate disabled.

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

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The World's Sixth Sense®