



INDUSTRIAL/MACHINE VISION APPLICATIONS

FLIR BLACKFLY'S

P/N CFGM-230M/C

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.

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 GenlCam3 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

SPECS	CFGM-230M	CFGM-230C
Resolution	1920 x 1200	
Frame Rate*	53 FPS	
Megapixels	2.3 MP	
Chroma	Mono	Color
Sensor	Sony IMX392, CMOS, 1/2.3"	
Readout Method	Global shutter	
Pixel Size	3.45 µm	
Lens Mount	C-mount	
ADC	10-bit / 12-bit	
Minimum Frame Rate**	1 FPS	
Gain Range**	0 to 47 dB	
Exposure Range**	9 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, 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	10 \/
<u> </u>		r 12 v nominai (8 - 24 v) via GPIO
Power Consumption	3 W r	maximum
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Power Consumption	29 mm x 29 m	naximum
Power Consumption Dimensions/Mass	29 mm x 29 m Gige \	naximum nm x 30 mm / 36 g
Power Consumption Dimensions/Mass Machine Vision Standard	29 mm x 29 m Gige \ CE, FCC, KCC, RoHS, REACH. TI Operating	naximum nm x 30 mm / 36 g /ision v1.2
Power Consumption Dimensions/Mass Machine Vision Standard Compliance	29 mm x 29 m Gige \ CE, FCC, KCC, RoHS, REACH. TI Operating Storage: Operating: 20% to	maximum mm x 30 mm / 36 g /ision v1.2 the ECCN for this product is: EAR099. g: 0°C to 50°C

*Frame rates are measured with Device Link Throughput Limit of 125 MBps and Acquisition Frame Rate disabled. Values are rounded down



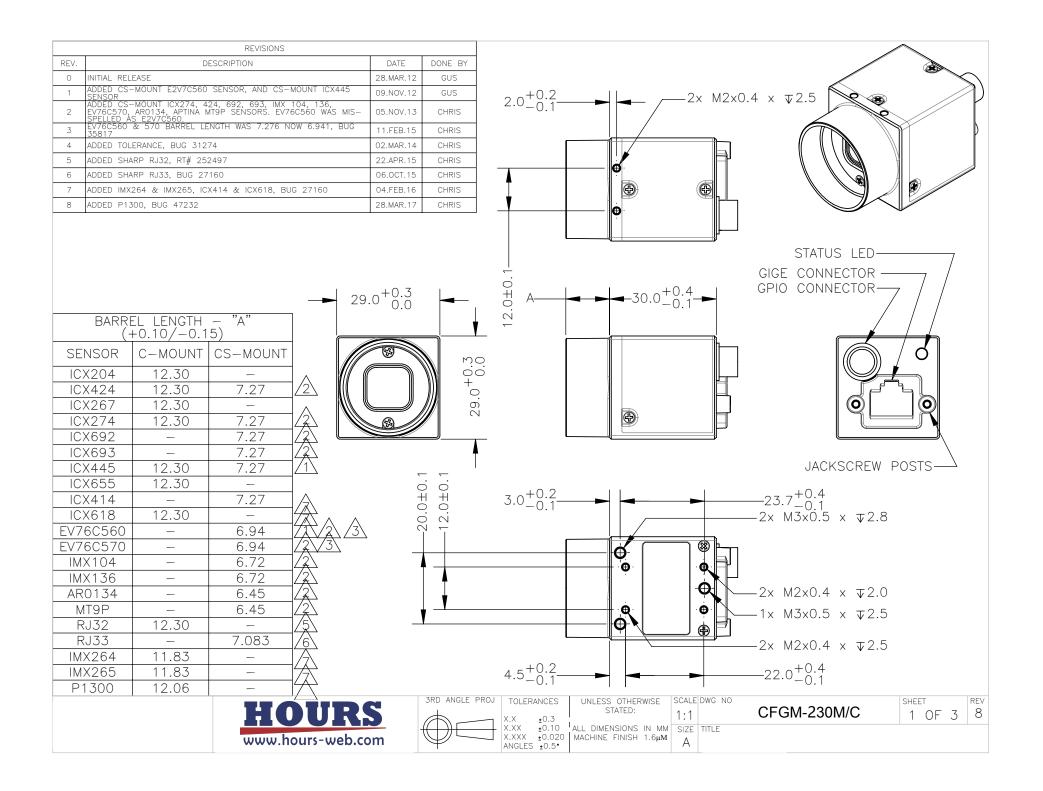






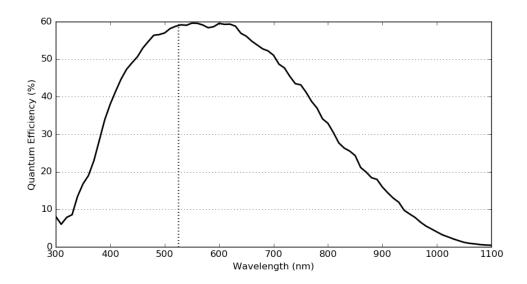
to whole numbers.

 $[\]ensuremath{^{**}}\mbox{\ensuremath{\mbox{Values}}}$ are the same in binning and no binning modes.





CFGM-230M



CFGM-230C

