



INDUSTRIAL/MACHINE VISION APPLICATIONS



FLIR FIREFLY® S

P/N: FFY-U3-04S2

TINY CAMERA, EXCEPTIONAL VALUE

The FLIR Firefly® S delivers the essential machine vision features you need in an ultra-compact body. Its small size, low power, and light weight make it ideal for embedding into portable devices.

The Firefly S provides amazing value by combining powerful on-camera features with the latest CMOS sensors.

www.flir.com/products/firefly-s



SMALL, LIGHT, AND LOW POWER

Ideal for embedding into compact, hand-held and portable devices with a footprint of 27 mm x 27 mm x 14 mm, 20 gram weight and 1.6 W power consumption.



CORE MACHINE VISION CAPABILITIES

Essential machine vision features including GPIO, triggering, and partial image modes



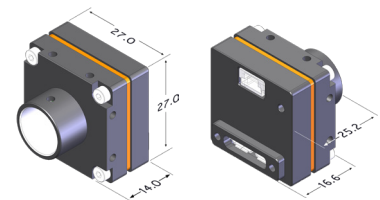
EXCEPTIONAL VALUE

Get access to the latest global shutter CMOS sensors at low starting prices of just \$199 USD

SPECIFICATIONS

SPECS	FFY-U3-04S2M	FFY-U3-04S2C
Resolution	720 x 540	
Frame Rate*	121 FPS	
Megapixels	0.4 MP	
Chroma	Mono	Color
Sensor	Sony IMX297, CMOS, 1/2.9"	
Readout Method	Global shutter	
Pixel Size	6.90 µm	
Lens Mount	S-mount / C-mount / CS-mount	
ADC	10-bit	
Minimum Frame Rate	1 FPS	
Gain Range	0 to 48 dB	
Exposure Range	29 µs to 30 s	
Acquisition Modes	Continuous, Single Frame, Multi Frame	
Partial Image Modes	ROI	
Image Processing	Gamma, denoise, lookup table, and sharpness	Gamma, denoise, lookup table, saturation, and sharpness
Image Buffer	32 MB	
User Sets	2 user configuration sets for custom camera settings	
Flash Memory	24 MB non-volatile memory	
Opto-isolated I/O	N/A	
Non-isolated I/O	4 bi-directional	
Serial Port	1 (over non-isolated I/O)	
Auxiliary Output	3.3 V, 120 mA maximum	
Interface	USB 3.1 Gen 1	
Power Requirements	5 V via USB3 interface	
Power Consumption	1.6 W maximum	
Dimensions/Mass	27 mm x 27 mm x 14.5 mm / 20 g	
Machine Vision Standard	USB3 Vision v1.0	
Compliance	CE, FCC, KCC, RoHS, REACH. The ECCN for this product is: EAR099.	
Temperature	Operating: 0°C to 85°C (case) Storage: -30°C to 60°C (ambient)	
Humidity	Operating: 20% to 80% (no condensation) Storage: 30% to 95% (no condensation)	
Warranty	3 years	

*Frame rates are measured with Device Link Throughput Limit of 380 MBps and Acquisition Frame Rate disabled. Values are rounded down to whole numbers.



For more information please contact:

BOCK OPTRONICS INC.
14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca

©2020 FLIR® Integrated Imaging Solutions Inc. All rights reserved.
Names and marks appearing on the products herein are either
registered trademarks or trademarks of FLIR® Systems, Inc. and/or
its subsidiaries. Specifications are subject to change without notice.
Rev. 06/12/20

VN: 20-0694-OEM-FFY-U3-04S2-v2-LET

FIND THE BEST FIREFLY
FOR YOUR NEEDS



The World's Sixth Sense®