

FLIR Firefly[®]

- **Small, light and low power**

Ideal for embedding into compact, hand-held and portable devices

- **Core machine vision capabilities**

Global shutter CMOS and essential machine vision features including GPIO, triggering, and partial image modes

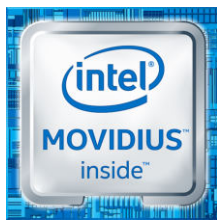
- **Deep learning inference on-camera**

Intel[®] Movidius[™] Myriad[™] 2 powered deep learning inference

USB VISION GEN<i>CAM



ON-CAMERA
INFERENCE



Biomedical

High Quantum Efficiency (QE) and **low read noise** deliver the imaging performance required for accurate results. FLIR supports customers requiring **FDA certification**.



Unmanned Aerial Systems (UAS)

Global shutter CMOS image sensor for sharp and accurate images while moving. **20 g mass** and **1.5 W** power consumption maximize flight time. Robust construction ensures vibration resistance and **high reliability**.



Eye Tracking

60 FPS for high accuracy tracking. **Near-infrared (NIR)** sensitivity enables lower power illumination. **Ultra-compact** 27mm x 27mm footprint for compact hardware. **GenICam** and **USB3Vision** compatibility makes integration with third party libraries simple.



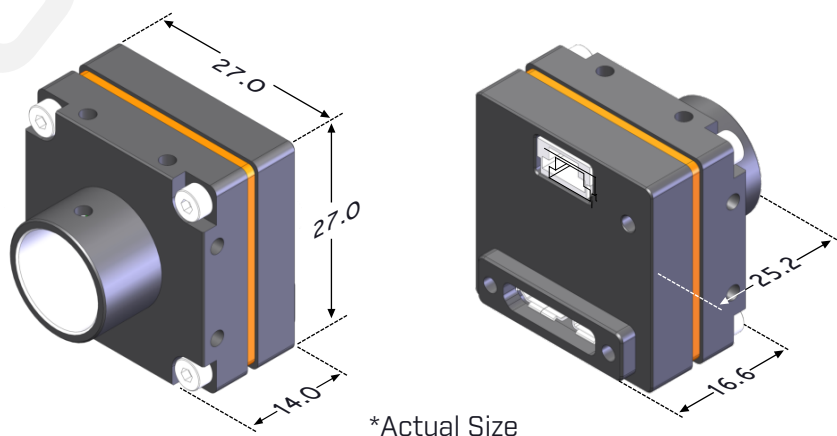
Depth Sensing and Hand-held Devices

Precise **Hardware Triggering** over GPIO makes synchronizing multiple cameras and lighting systems easy, while **ultra-compact** size is easily integrated into embedded systems

Preliminary Specifications

Learn more at flir.com/firefly

	FFY-U3-16S2M-S
Resolution	1456 x 1088
Frame Rate*	60 FPS
Megapixels	1.58 MP
Chroma	Monochrome
Sensor	Sony IMX296, CMOS
Sensor Format	1/2.9"
Readout Method	Global Shutter
Pixel Size	3.45 μ m
Lens Mount	S-Mount (M12)
ADC	10-bit
Gain Range	0 to 24 dB
Exposure Range	15 μ s to 30 s
Acquisition Modes	Continuous, Single Frame, Multi Frame
Partial Image Modes	Region of Interest, Pixel Binning
Non-isolated I/O	4 x bidirectional
Mass	20g
Interface	USB 3.1 Gen 1
Power Requirements	5 V via USB 3.0 interface, 1.5 W nominal
Dimensions (excluding lens mount)	27 mm x 27 mm x X 14 mm



*Actual Size

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