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BFS-U3-89S6C-C USB 3.1 Blackfly® S, Color Camera

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Teledyne FLIR IIS Blackfly® S USB3 Camera (front)



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C\$4,102⁰⁰

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Product Downloads

Color

Spectrum:

General

Color Camera

Type:

BFS-U3-89S6C-C	Model Number:
FLIR	Manufacturer:
Blackfly® S	Camera Series:

Physical & Mechanical Properties

29 x 29 x 30 (excludes connectors and lens mount)	Dimensions (mm):
36	Weight (g):

Full	Housing:
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Sensor

240MB	Image Buffer:
1"	Sensor Format:

8.90	Resolution (Megapixels):
42.00	Frame Rate (fps):

4,096 x 2,160	Pixels (H x V):
3.45 x 3.45	Pixel Size, H x V (µm):

14.13 x 7.45	Sensing Area, H x V (mm):
Sony IMX255	Imaging Sensor:

Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:

10/12 bit	Pixel Depth:
10µs - 30s	Exposure Time:

71.33	Dynamic Range (dB):
USB3 Vision v1.0	Machine Vision Standard:

Electrical

Not Specified	Power Consumption (W):
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Hardware & Interface Connectivity

USB 3.1 Gen 1	Interface:
USB 3.1 Gen 1, Micro-B with Screw Locks	Connector:

Power over USB or via GPIO with #88-063	Power Supply:
1 opto-isolated input, 1 opto-isolated output, 1 non-isolated bi-directional, 1 non-isolated input	GPIOs:

Hardware Trigger (GPIO) or Software Trigger	Synchronization:
Back Panel	Interface Port Orientation:

6-pin Hirose (HR10)	GPIO Connector Type:
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Threading & Mounting

C-Mount	Mount:
¼-20 with Tripod Mount Adapter #88-210	Mounting Threads:

Environmental & Durability Factors

0 to +50	Operating Temperature (°C):
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Storage Temperature (°C):	
-30 to +60	
Regulatory Compliance	
Exempt	RoHS 2015:
View	Certificate of Conformance:
Contains SVHC(s)	Reach 240:

Product Details

- Ultra-Compact Design
- USB3 Vision and GenICam Compliant
- Includes Image Capture Software and Spinnaker SDK



Teledyne FLIR IIS Blackfly S: Advanced Machine Vision Cameras with powerful features

Capture the images you need from advanced sensors in enclosed or board-level configurations

The **Blackfly® S** is a versatile and compact machine vision camera series that leverages the industry's most advanced area scan sensors in an ultra-compact form factor. It combines powerful features that easily produce the exact images required, accelerating application development. Combining both automatic and precise manual controls over image capture and on-camera pre-processing. With options ranging from high-speed performance, high-resolution images, polarization, or low-light sensitivity, the Blackfly® S series of cameras can deliver the required results.

With the selection of camera variations all sharing the same form factor, it makes it easy to develop once, deploy anywhere. On camera features include IEEE1588 clock synchronization and full compatibility with popular third-party software supporting either GigE Vision or USB3 Vision interfaces. The Blackfly® S is available in GigE, USB3, cased, and board-level versions.

Note: USB3 cable sold separately. Use [\(#03-618\)](#) 5mm Spacer to convert CS-Mount Cameras to C-Mount. Software available for [download](#).

Blackfly® S USB3 color / monochrome cameras

- Compatible with third-party software and hardware, and supports a wide range of operating systems and host system architectures.

Features

- Ultra-compact form factor (29mm x 29mm x 39mm)
- Leverage the latest CMOS sensors and new on-camera image processing features
- Harness increased binning flexibility, powerful auto-exposure controls and robust color transformation tools
- Improve cycle time using advanced camera controls and programmable logic
- Utilize sequencer, chunk data, event notification, counters, timers and logic blocks
- Choice of CMOS global shutter, polarization, and high-sensitivity BSI sensors
- Data interface options: GigE, USB3
- Color transformation tools for true-to-life color
- Advanced auto-algorithms or precise manual control over image capture and on-camera pre-processing
- On-camera features such as IEEE1588 clock synchronization, lossless compression, and deep learning inference
- Compatible with third-party software and hardware
- Support for a wide range of operating systems and host system architectures
- Rich sample code and descriptive API logging
- Simplified product iteration with consistent form factor across sensor sizes
- Camera control via FlyCapture SDK or 3rd-party USB3 Vision software

Applications

- Intelligent Transportation Systems
- Factory automation
- Bar code reading
- 3D scanning
- Life science instrumentation
- Biometrics kiosk solutions
- Ophthalmoscopy
- Automated optical inspection
- Food & Beverage industry

Note: Please be sure to choose the correct adapter. [#88-210](#) is for Blackfly S that measure 29x29x30mm and [#15-838](#) is for Blackfly S that measure 29x29x39mm.

Calibration Services