

BFLY-PGE-31S4M/C-C 1/1.8" Blackfly® PoE GigE Color Camera

A close-up photograph of a black, rectangular FLIR thermal camera module. The device is oriented horizontally, showing its front face. On the left side, the FLIR logo is printed in white. The right side of the device features a large, circular, silver-colored mounting flange. In the center of this flange is a glowing red rectangular sensor window. The background is dark and out of focus.



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! Prices shown are exclusive of VAT/local taxes

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General	
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Type:

Color Camera	
BFLY-PGE-31S4C-C	Model Number:
FLIR	Manufacturer:
Blackfly®	Camera Series:

Physical & Mechanical Properties

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

Sensor

16MB	Image Buffer:
1/1.8"	Sensor Format:
3.20	Resolution (Megapixels):
35.00	Frame Rate (fps):
2,048 x 1,536	Pixels (H x V):
3.45 x 3.45	Pixel Size, H x V (µm):
7.07 x 5.3	Sensing Area, H x V (mm):
Sony IMX265	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
12 bit	Pixel Depth:
18µs - 11.9s	Exposure Time:
70.80	Dynamic Range (dB):
GigE Vision v1.2	Machine Vision Standard:

Electrical

2.5	Power Consumption (W):
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Hardware & Interface Connectivity

GigE (PoE)	Interface:
GigE, RJ45 with Screw Locks	Connector:
Power Supply Required and Sold Separately. USA: #88-063 Europe: #88-063 Japan: #88-063 Korea: Not Available China: #88-063	Power Supply:
1 opto-isolated input, 1 opto-isolated output	GPIOs:
Hardware Trigger (GPIO) or Software Trigger	Synchronization:
Back Panel	Interface Port Orientation:
6-pin Hirose (HR10)	GPIO Connector Type:

Threading & Mounting

C-Mount	Mount:
1/4-20 with Tripod Mount Adapter #88-210	Mounting Threads:

Environmental & Durability Factors

0 to +45	Operating Temperature (°C):
-30 to +60	Storage Temperature (°C):

Regulatory Compliance

Exempt	RoHS 2015:
View	Certificate of Conformance:
Contains SVHC(s)	Reach 240:

Product Details

- Ultra-Compact Design
- Power over Ethernet (PoE) for Maximum Flexibility
- Includes Image Capture Software and FlyCapture2 SDK
- **USB3** Versions Also Available



Teledyne FLIR IIS Blackfly®: Legacy series Machine Vision Cameras that fit anywhere

The Blackfly® camera line combines Sony, Aptina, and e2v sensors with a host of unique features.

The **Blackfly®** machine vision camera line combines the high throughput of USB 3.0 or GigE, offering a number of highly sensitive sensors. The camera combines a comprehensive list of unique features, offering industry-leading capabilities, affordability, and uncompromising value. The ultra-compact Blackfly camera measures 29 x29 x30mm, weighs just 36 grams, uses 3 watts of power, and includes a 3-year warranty.

The **Blackfly®** is available with either color or monochrome sensors, providing a versatile imaging solution to easily obtain the exact images required to accelerate application development. A range of camera accessories and a common form factor provide a consistent platform for integration across the range of available sensor formats, resolution, and frame rates.

Note: Two GigE cables are required if using the PoE injector. Use (#03-618) 5mm Spacer to convert CS-Mount Cameras to C-Mount. Software available for download.

Blackfly® GigE color / monochrome

- Models are available with various image sensors in a range of resolutions: 1.2 MP, 1.3 MP, 2.0 MP, 2.3 MP, 3.2 MP, and 5.0 MP

Features

- Perfect analog camera replacement
- Data interface options: either GigE or **USB3**
- CS-mount
- Ultra-compact form factor, measuring 29 x29 x30mm, weighs only 36g
- On-camera image processing includes color interpolation, gamma, and LUT
- 16 MByte frame buffer
- LED status indicator
- Supports partial readout via ROI, binning, decimation
- Triggering modes include standard, bulb, overlapped, multi-shot (not all sensors support all modes)
- 2 user configuration sets for custom camera settings
- Bit depth: 10 or 12-bit
- Advanced auto-algorithms or precise manual control over image capture and on-camera pre-processing
- Windows or Linux platforms (32 or 64-bit)
- Camera control via FlyCapture SDK or 3rd-party USB3 Vision software

Applications

- Life science instrumentation
- Factory automation
- Biometrics kiosk solutions
- Ophthalmoscopy
- 3D scanning
- Automated optical inspection
- Food & Beverage industry