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

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Teledyne FLIR IIS Blackfly® GigE Cameras (Front)



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Color

Spectrum:

**General**

Type:

Color Camera

**Model Number:**  
BFLY-PGE-31S4C-C

**Manufacturer:**  
FLIR

**Camera Series:**  
Blackfly®

## Physical & Mechanical Properties

**Dimensions (mm):**  
29 x 29 x 30 (excludes connectors and lens mount)

**Weight (g):**  
36

**Housing:**  
Full

## Sensor

**Image Buffer:**  
16MB

**Sensor Format:**  
1/1.8"

**Resolution (Megapixels):**  
3.20

**Frame Rate (fps):**  
35.00

**Pixels (H x V):**  
2,048 x 1,536

**Pixel Size, H x V (µm):**  
3.45 x 3.45

**Sensing Area, H x V (mm):**  
7.07 x 5.3

**Imaging Sensor:**  
Sony IMX265

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
12 bit

**Exposure Time:**  
18µs - 11.9s

**Dynamic Range (dB):**  
70.80

**Machine Vision Standard:**  
GigE Vision v1.2

## Electrical

**Power Consumption (W):**  
2.5

## Hardware & Interface Connectivity

**Interface:**  
GigE (PoE)

**Connector:**  
GigE, RJ45 with Screw Locks

**Power Supply:**  
Power Supply Required and Sold Separately:  
USA: [#88-063](#)  
Europe: [#88-063](#)  
Japan: [#88-063](#)  
Korea: Not Available  
China: [#88-063](#)

**GPIOs:**  
1 opto-isolated input, 1 opto-isolated output

**Synchronization:**  
Hardware Trigger (GPIO) or Software Trigger

**Interface Port Orientation:**  
Back Panel

**GPIO Connector Type:**  
6-pin Hirose (HR10)

## Threading & Mounting

**Mount:**  
C-Mount

**Mounting Threads:**  
1/4-20 with Tripod Mount Adapter [#88-210](#)

## 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  
Authorized  
Distributor

### 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 x 29 x 30mm, 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 x 29 x 30mm, 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