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

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Teledyne FLIR IIS Blackfly® GigE Cameras (Front)



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1

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€585<sup>00</sup>

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**Note:** This item requires accessories for use | [Learn More](#)

## Product Downloads

Monochrome

Spectrum:

## General

Type:

|                   |                |
|-------------------|----------------|
| Monochrome Camera |                |
| BFLY-PGE-31S4M-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:            |
| 71.31                 | Dynamic Range (dB):       |
| GigE Vision v1.2      | Machine Vision Standard:  |

Electrical

|     |                        |
|-----|------------------------|
| 2.5 | Power Consumption (W): |
|-----|------------------------|

Hardware & Interface Connectivity

|                                                                                                                                                                                                           |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| GigE (PoE)                                                                                                                                                                                                | Interface:                  |
| GigE, RJ45 with Screw Locks                                                                                                                                                                               | Connector:                  |
| Power Supply Required and Sold Separately.<br>USA: <a href="#">#88-063</a><br>Europe: <a href="#">#88-063</a><br>Japan: <a href="#">#88-063</a><br>Korea: Not Available<br>China: <a href="#">#88-063</a> | 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 <a href="#">#88-210</a> | 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