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# BFLY-PGE-13E4C-CS 1/1.8" Blackfly® PoE GigE Color Camera

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Teledyne FLIR IIS Blackfly® GigE Cameras (Front)



Teledyne  
Authorized  
Distributor

+1

Stock **#88-044** 1 In Stock

-

1

+

S\$680<sup>40</sup>

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

Product Downloads

|       |           |
|-------|-----------|
| Color | Spectrum: |
|-------|-----------|

General

|              |               |
|--------------|---------------|
| Color Camera | Type:         |
|              | Model Number: |

|                                                                                                                                                                                                           |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| BFLY-PGE-13E4C-CS                                                                                                                                                                                         |                             |
| FLIR                                                                                                                                                                                                      | Manufacturer:               |
| Blackfly®                                                                                                                                                                                                 | Camera Series:              |
| Physical & Mechanical Properties                                                                                                                                                                          |                             |
| 29 x 29 x 30 (excludes connectors and lens mount)                                                                                                                                                         | Dimensions (mm):            |
| 90                                                                                                                                                                                                        | Weight (g):                 |
| Full                                                                                                                                                                                                      | Housing:                    |
| Sensor                                                                                                                                                                                                    |                             |
| 16MB                                                                                                                                                                                                      | Image Buffer:               |
| 1/1.8"                                                                                                                                                                                                    | Sensor Format:              |
| 1.30                                                                                                                                                                                                      | Resolution (Megapixels):    |
| 60.00                                                                                                                                                                                                     | Frame Rate (fps):           |
| 1,280 x 1,024                                                                                                                                                                                             | Pixels (H x V):             |
| 5.3 x 5.3                                                                                                                                                                                                 | Pixel Size, H x V (µm):     |
| 6.78 x 5.43                                                                                                                                                                                               | Sensing Area, H x V (mm):   |
| e2v EV76C560                                                                                                                                                                                              | Imaging Sensor:             |
| Progressive Scan CMOS                                                                                                                                                                                     | Type of Sensor:             |
| Global                                                                                                                                                                                                    | Shutter Type:               |
| 10 bit                                                                                                                                                                                                    | Pixel Depth:                |
| 15µs - 1s                                                                                                                                                                                                 | Exposure Time:              |
| 50.82 (Mbde 0) 59.48 (Mbde 7)                                                                                                                                                                             | Dynamic Range (dB):         |
| GigE Vision v1.2                                                                                                                                                                                          | Machine Vision Standard:    |
| Electrical                                                                                                                                                                                                |                             |
| 2                                                                                                                                                                                                         | 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                                                                                                                                                                                      |                             |
| CS-Mount                                                                                                                                                                                                  | Mount:                      |
| 1/4-20 with Tripod Mount Adapter <a href="#">#88-210</a>                                                                                                                                                  | Mounting Threads:           |
| Environmental & Durability Factors                                                                                                                                                                        |                             |
|                                                                                                                                                                                                           | Operating Temperature (°C): |

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

Regulatory Compliance

|        |                             |
|--------|-----------------------------|
| Exempt | RoHS 2015:                  |
| View   | Certificate of Conformance: |

|                  |            |
|------------------|------------|
| Contains SVHC(s) | Reach 240: |
|------------------|------------|

## Product Details

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](#).

- 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 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