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## BFLY-PGE-50S5M-CS 2/3" Blackfly® PoE GigE Monochrome Camera

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Teledyne FLIR IIS Blackfly® GigE Cameras (Front)



Stock #22-073 **1 In Stock**

1 £736<sup>00</sup>

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

### Product Downloads

Monochrome

Spectrum:

### General

Monochrome Camera

Type:

|                   |                       |
|-------------------|-----------------------|
| BFLY-PGE-50S5M-CS | <b>Model Number:</b>  |
| FLIR              | <b>Manufacturer:</b>  |
| Blackfly®         | <b>Camera Series:</b> |

## Physical & Mechanical Properties

|   |                         |
|---|-------------------------|
| 29 x 29 x 30 (excludes connectors and lens mount) | <b>Dimensions (mm):</b> |
| 36  | <b>Weight (g):</b>      |
| Full  | <b>Housing:</b>         |

## Sensor

|                       |                                  |
|-----------------------|----------------------------------|
| 16MB                  | <b>Image Buffer:</b>             |
| 2/3"                  | <b>Sensor Format:</b>            |
| 5.00                  | <b>Resolution (Megapixels):</b>  |
| 22.00                 | <b>Frame Rate (fps):</b>         |
| 2,448 x 2,048         | <b>Pixels (H x V):</b>           |
| 3.45 x 3.45           | <b>Pixel Size, H x V (µm):</b>   |
| 8.45 x 7.07           | <b>Sensing Area, H x V (mm):</b> |
| Sony IMX264           | <b>Imaging Sensor:</b>           |
| Progressive Scan CMOS | <b>Type of Sensor:</b>           |
| Global                | <b>Shutter Type:</b>             |
| 12 bit                | <b>Pixel Depth:</b>              |
| 22µs - 11.99s         | <b>Exposure Time:</b>            |
| 70.78                 | <b>Dynamic Range (dB):</b>       |
| GigE Vision v1.2      | <b>Machine Vision Standard:</b>  |

## Electrical

|     |                               |
|-----|-------------------------------|
| 2.5 | <b>Power Consumption (W):</b> |
|-----|-------------------------------|

## Hardware & Interface Connectivity

|   |                                    |
|---|------------------------------------|
| GigE (PoE)  | <b>Interface:</b>                  |
| GigE, RJ45 with Screw Locks   | <b>Connector:</b>                  |
| 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> | <b>Power Supply:</b>               |
| 1 opto-isolated input, 1 opto-isolated output   | <b>GPIOs:</b>                      |
| Hardware Trigger (GPIO) or Software Trigger   | <b>Synchronization:</b>            |
| Back Panel  | <b>Interface Port Orientation:</b> |
| 6-pin Hirose (HR10)   | <b>GPIO Connector Type:</b>        |

## Threading & Mounting

|  |                          |
|--|--------------------------|
| CS-Mount   | <b>Mount:</b>            |
| ¼-20 with Tripod Mount Adapter <a href="#">#88-210</a> | <b>Mounting Threads:</b> |

## 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