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BFLY-PGE-50S5C-C 2/3" Blackfly® PoE GigE Color Camera

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Teledyne FLIR IIS Blackfly® GigE Cameras (Front)

+1

Stock **#34-512** **1 In Stock**

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Spectrum:

Color

General

Type:

Color Camera

Model Number:
BFLY-PGE-50S5C-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:
2/3"

Resolution (Megapixels):
5.00

Frame Rate (fps):
22.00

Pixels (H x V):
2,448 x 2,048

Pixel Size, H x V (µm):
3.45 x 3.45

Sensing Area, H x V (mm):
8.45 x 7.07

Imaging Sensor:
Sony IMX264

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
12 bit

Exposure Time:
22µs - 11.99s

Dynamic Range (dB):
70.66

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:
¼-20 with Tripod Mount Adapter **#88-210**

Environmental & Durability Factors

Operating Temperature (°C):

0 to +45

Storage Temperature (°C):

-30 to +60

Regulatory Compliance

RoHS 2015:

Exempt

Certificate of Conformance:

View

Reach 240:

Contains SVHC(s)

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

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