

BFLY-PGE-12A2M-CS 1/3" Blackfly® PoE GigE Monochrome Camera

A black FLIR thermal camera is shown from a three-quarter perspective. The camera has a prominent silver-colored lens ring on the right side, which frames a glowing red rectangular sensor window. The FLIR logo, consisting of a diamond-shaped icon and the word "FLIR" in bold capital letters, is printed in white on the left side of the camera's body. The device is set against a dark, gradient background.



☐ - 1 ☐ + €355^{,00}

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

Monochrome	Spectrum:
General	

Monochrome Camera

Type:

BFLY-PGE-12A2M-CS	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:
1/3"	Sensor Format:
1.20	Resolution (Megapixels):
52.00	Frame Rate (fps):
1,280 x 960	Pixels (H x V):
3.75 x 3.75	Pixel Size, H x V (µm):
4.8 x 3.6	Sensing Area, H x V (mm):
ON Semi AR0134	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
12 bit	Pixel Depth:
19µs - 1.226s	Exposure Time:
57.87	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. USA: #88-063 Europe: #88-063 Japan: #88-063 Korea: Not Available China: #88-063	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 #88-210	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

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 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.

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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