BFLY-PGE-20E4M-CS 1/1.8" Blackfly® PoE GigE Monochrome Camera

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Teledyne FLIR IIS Blackfly® GigE Cameras (Front)

+1

Stock **#89-997**   **1 In Stock**

− 1 +   **€635**.00

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Note: This item requires accessories for use | Learn More

Product Downloads

Spectrum:

Monochrome

General

Type:

Monochrome Camera

Model Number:	
BFLY-PGE-20E4M-CS	
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:	
1/1.8"	
Resolution (Megapixels):	
2.00	
Frame Rate (fps):	
47.00	
Pixels (H x V):	
1,600 x 1,200	
Pixel Size, H x V (µm):	
4.5 x 4.5	
Sensing Area, H x V (mm):	
7.2 x 5.4	
Imaging Sensor:	
e2v EV76C570	
Type of Sensor:	
Progressive Scan CMOS	
Shutter Type:	
Global	
Pixel Depth:	
10 bit	
Exposure Time:	
16µs - 1s	
Dynamic Range (dB):	
51.38	
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:	
CS-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

Certificate of Conformance:	
View	

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
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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