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BFS-U3-16S2C-BD2 USB 3.1 Blackfly® S, Color Camera

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Teledyne FLIR IIS Blackfly® S USB 3.1 Board Level Cameras - Front



Stock #28-649 **3 In Stock**

- 1 + MRP ₹43,778

Price inclusive of all taxes

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Color **Spectrum:**

General

Color Camera **Type:**

BFS-U3-16S2C-BD2 **Model Number:**

FLIR
Blackfly® S

Manufacturer:
Camera Series:

Lens Mount Sold Separately, Found in Accessories Tab

Note:

Physical & Mechanical Properties

29 x 29 x 10 (excludes connectors and lens mount)

Dimensions (mm):

10

Weight (g):

Board Level

Housing:

Sensor

240MB

Image Buffer:

1/2.9"

Sensor Format:

1.60

Resolution (Megapixels):

226.00

Frame Rate (fps):

1,440 x 1,080

Pixels (H x V):

3.45 x 3.45

Pixel Size, H x V (µm):

4.97 x 3.73

Sensing Area, H x V (mm):

Sony IMX273

Imaging Sensor:

Progressive Scan CMOS

Type of Sensor:

Global

Shutter Type:

8/10/12 Bit

Pixel Depth:

4µs - 30s

Exposure Time:

71.43

Dynamic Range (dB):

USB3 Vision v1.0

Machine Vision Standard:

Electrical

3

Power Consumption (W):

Hardware & Interface Connectivity

USB 3.1 Gen 1

Interface:

USB3 TF38

Connector:

1 opto-isolated input, 1 opto-isolated output, 1 non-isolated bi-directional, 1 non-isolated input

GPIOs:

Hardware Trigger (GPIO) or Software Trigger

Synchronization:

Back Panel

Interface Port Orientation:

JST BM06B-NSHSS-TBT

GPIO Connector Type:

Threading & Mounting

No Lens Mount

Mount:

Environmental & Durability Factors

0 to +50

Operating Temperature (°C):

-30 to +60

Storage Temperature (°C):

Regulatory Compliance

Certificate of Conformance:[View](#)

Country of Origin:

Canada

Imported By:

Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

Product Details

- USB3 Vision and GenICam Compliant
- Ultra-Compact, 29 x 29 x 10mm, Board Level Cameras
- Supports the Trigger-to-Image Reliability (T2IR) Framework
- [Fully Housed Versions](#) Available



Teledyne
Authorized
Distributor

Teledyne FLIR IIS Blackfly S: Advanced Machine Vision Cameras with powerful features

Capture the images you need from advanced sensors in enclosed or board-level configurations

The **Blackfly® S** is a versatile and compact machine vision camera series that leverages the industry's most advanced area scan sensors in an ultra-compact form factor. It combines powerful features that easily produce the exact images required, accelerating application development. Combining both automatic and precise manual controls over image capture and on-camera pre-processing. With options ranging from high-speed performance, high-resolution images, polarization, or low-light sensitivity, the Blackfly® S series of cameras can deliver the required results.

With the selection of camera variations all sharing the same form factor, it makes it easy to develop once, deploy anywhere. On camera features include IEEE1588 clock synchronization and full compatibility with popular third-party software supporting either GigE Vision or USB3 Vision interfaces. The Blackfly® S is available in GigE, USB3, cased, and board-level versions.

Note: Board level cameras with exposed electronics are intended for system integration and may not be suitable for end users. USB3 cable and Lens Mounts sold separately. [FLIR's Spinnaker software development kit \(SDK\)](#) is available for free download. FPC cable and adapter are required for USB3 connectivity and sold separately.

Blackfly® S Board level [USB3 or GigE]

- Board level models enable OEMs to develop smaller, lighter, and lower cost solutions with embedded system connectivity and rich features. Ready for integration with proven compatibility with popular SBCs and SOMs.

Features

- Ultra-compact form factor (29mm x 29mm x 39mm)
- Leverage the latest CMOS sensors and new on-camera image processing features
- Harness increased binning flexibility, powerful auto-exposure controls and robust color transformation tools
- Improve cycle time using advanced camera controls and programmable logic
- Utilize sequencer, chunk data, event notification, counters, timers and logic blocks
- Choice of CMOS global shutter, polarization, and high-sensitivity BSI sensors
- Data interface options: GigE, USB3
- Color transformation tools for true-to-life color
- Advanced auto-algorithms or precise manual control over image capture and on-camera pre-processing
- On-camera features such as IEEE1588 clock synchronization, lossless compression, and deep learning inference
- Compatible with third-party software and hardware
- Support for a wide range of operating systems and host system architectures
- Rich sample code and descriptive API logging
- Simplified product iteration with consistent form factor across sensor sizes
- Camera control via FlyCapture SDK or 3rd-party USB3 Vision software

Applications

- Intelligent Transportation Systems
- Factory automation
- Bar code reading
- 3D scanning
- Life science instrumentation
- Biometrics kiosk solutions
- Ophthalmoscopy
- Automated optical inspection
- Food & Beverage industry