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# Teledyne Imaging FLIR/IIS Blackfly® USB 3.0 Cameras See More by [Teledyne FLIR](#)



- Ultra-Compact Design
- USB 3.0 Connectivity for Increased Image Transfer Rate
- Includes Image Capture Software and FlyCapture2 SDK
- [GigE](#) Versions Also Available



## Common Specifications

### General

<b>Manufacturer:</b>	FLIR	<b>Camera Series:</b>	Blackfly®
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### Physical & Mechanical Properties

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

### Sensor

<b>Image Buffer:</b>	16MB
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<b>Sensor Format:</b>	1/1.2"	<b>Resolution (Megapixels):</b>	2.30
<b>Frame Rate (fps):</b>	41.00	<b>Pixels (H x V):</b>	1,920 x 1,200
<b>Pixel Size, H x V (µm):</b>	5.86 x 5.86	<b>Sensing Area, H x V (mm):</b>	11.25 x 7.03
<b>Imaging Sensor:</b>	Sony IMX249	<b>Type of Sensor:</b>	Progressive Scan CMOS
<b>Shutter Type:</b>	Global	<b>Exposure Time:</b>	19µs - 3.9s
<b>Machine Vision Standard:</b>	USB3 Vision v1.0		

### Electrical

**Power Consumption (W):**

Not Specified

### Hardware & Interface Connectivity

**Interface:** USB 3.0

**Connector:** USB 3.1 Gen 1, Micro-B with Screw Locks

**Power Supply:** Power over USB or via GPIO with [#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:** 1/4-20 with Tripod Mount Adapter [#88-210](#)

### Environmental & Durability Factors

**Operating Temperature (°C):** 0 to +45

**Storage Temperature (°C):** -30 to +60

**Technical Information**

Products

Type	Model Number	Sensor Format	Resolution (Megapixels)	Connector	Mount	Stock Number	Price	Buy
Color Camera	BFLY-U3-23S6C-C	1/1.2"	2.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#33-433</a>	₹59,500	10 to 12 days
Monochrome Camera	BFLY-U3-23S6M-C	1/1.2"	2.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#33-432</a>	₹59,500	10 to 12 days



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