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## Teledyne FLIR IIS Blackfly S USB 3.1 Cameras See More by [Teledyne FLIR](#)



- Ultra-Compact Design
- USB3 Vision and GenICam Compliant
- Includes Image Capture Software and Spinnaker SDK



### Common Specifications

#### General

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

<b>Housing:</b>	Full
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#### Sensor

<b>Image Buffer:</b>	240MB
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<b>Type of Sensor:</b>	Progressive Scan CMOS
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<b>Machine Vision Standard:</b>	USB3 Vision v1.0
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#### Hardware & Interface Connectivity

<b>Power Supply:</b>	Power over USB or via GPIO with <a href="#">#88-063</a>
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<b>Synchronization:</b>	Hardware Trigger (GPIO) or Software Trigger
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<b>Interface Port Orientation:</b>	Back Panel
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<b>GPIO Connector Type:</b>	6-pin Hirose (HR10)
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#### Environmental & Durability Factors

<b>Storage Temperature (°C):</b>	-30 to +60
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**Technical Information**

Products

Type	Model Number	Sensor Format	Resolution (Megapixels)	Connector	Mount	Stock Number	Price	Buy
Color Camera	BFS-U3-17S7C-C	1.1"	1.70	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#15-837</a>	£1,483.25	2 In Stock
Monochrome Camera	BFS-U3-17S7M-C	1.1"	1.70	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#15-836</a>	£1,483.25	2 In Stock
Color Camera	BFS-U3-04S2C-CS	1/2.9"	0.40	USB 3.1 Gen 1, Micro-B with Screw Locks	CS-Mount	<a href="#">#11-506</a>	£306.85	2 In Stock
Color Camera	BFS-U3-04S2C-C	1/2.9"	0.40	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-085</a>	£306.85	1 In Stock
Monochrome Camera	BFS-U3-04S2M-CS	1/2.9"	0.40	USB 3.1 Gen 1, Micro-B with Screw Locks	CS-Mount	<a href="#">#11-505</a>	£306.85	2 In Stock
Monochrome Camera	BFS-U3-04S2M-C	1/2.9"	0.40	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-086</a>	£306.85	2 In Stock
Color Camera	BFS-U3-13Y3C-C	1/2"	1.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#36-452</a>	£408.00	1 In Stock
Monochrome Camera	BFS-U3-13Y3M-C	1/2"	1.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#36-451</a>	£408.00	1 In Stock
Color Camera	BFS-U3-16S2C-CS	1/2.9"	1.60	USB 3.1 Gen 1, Micro-B with Screw Locks	CS-Mount	<a href="#">#11-508</a>	£315.35	7 In Stock
Monochrome Camera	BFS-U3-16S2M-CS	1/2.9"	1.60	USB 3.1 Gen 1, Micro-B with Screw Locks	CS-Mount	<a href="#">#11-507</a>	£315.35	3 In Stock
Color Camera	BFS-U3-16S7C-C	1.1"	1.70	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-087</a>	£1,113.50	1 In Stock
Monochrome Camera	BFS-U3-16S7M-C	1.1"	1.70	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-088</a>	£1,113.50	4 In Stock

Color Camera	BFS-U3- 19S4C- C	1/1.7"	2.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C- Mount	<a href="#">#22-089</a>	£556.75	1 In Stock
Monochrome Camera	BFS-U3- 19S4M- C	1/1.7"	2.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C- Mount	<a href="#">#22-090</a>	£556.75	1 In Stock

#22-090-RCD-05P Recertified



Recertified

Stock No.: 22-090-RCD-05P  
Recertified Code: 05P (All Original  
Parts Included, Perfect)

Recertified  
Products

Typically 1-2 Recertified Products are  
in stock at a time. Please contact our  
sales team if you would like exact  
availability of an item.

Recertified products are those  
identified with the recertified logo  
indicating they were returned to  
Edmund Optics® and cannot be sold  
as new for the following reasons:

- Open Box – Missing original  
packaging
- Cosmetic Blemishes –  
Scratches, rub marks or other  
minor cosmetic imperfections
- Service/Repair – Product has  
been serviced to the factory  
original specification
- Factory Returns – Product has  
been returned in its original  
condition

Recertified products are inspected for  
damage and any necessary repairs are  
made. Products are then certified by  
Edmund Optics® to be in good working  
order. Since quantity is low, recertified  
products are sold on a first come, first  
serve basis. Any imperfections will be  
listed in the description, indicated in the  
stock number, and categorized by the  
table below. When purchasing  
recertified products, the Edmund  
Optics® standard [return policy](#) applies.

View all our [recertified products](#) in the  
Web Specials section of our website.

Monochrome Camera	BFS-U3- 19S4M- C	1/1.7"	2.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C- Mount		£390.15	1 In Stock
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Parts		Cosmetic	
05	All Original Parts Included	P	Perfect
04	Missing Manual	N	Minor Defect/Scratches
03	Missing Manual and Small Accessory	J	Major Defect/Scratches
02	Missing Manual and Large Accessory		

Color Camera	BFS-U3-20S4C-C	1/1.7"	2.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-091</a>	£773.50	2 In Stock
Monochrome Camera	BFS-U3-20S4M-C	1/1.7"	2.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-092</a>	£773.50	2 In Stock
Color Camera	BFS-U3-23S3C-C	1/2.3"	2.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#12-748</a>	£357.85	5 In Stock
Monochrome Camera	BFS-U3-23S3M-C	1/2.3"	2.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#12-747</a>	£357.85	5 In Stock
Color Camera	BFS-U3-27S5C-C	2/3"	2.80	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-093</a>	£607.75	5 In Stock
Monochrome Camera	BFS-U3-27S5M-C	2/3"	2.80	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-094</a>	£607.75	2 In Stock
Color Camera	BFS-U3-28S5C-C	2/3"	2.80	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#13-925</a>	£833.00	Contact Us
Monochrome Camera	BFS-U3-28S5M-C	2/3"	2.80	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#13-924</a>	£833.00	Contact Us
Color Camera	BFS-U3-31S4C-C	1/1.8"	3.10	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#12-750</a>	£480.25	3 In Stock
Monochrome Camera	BFS-U3-31S4M-C	1/1.8"	3.10	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#12-749</a>	£480.25	1 In Stock
Color Camera	BFS-U3-32S4C-C	1/1.8"	3.20	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#36-454</a>	£769.25	2 In Stock
Monochrome Camera	BFS-U3-32S4M-C	1/1.8"	3.20	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#36-453</a>	£769.25	3 In Stock
Color Camera	BFS-U3-50S4C-C	1/1.8"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-765</a>	£629.00	Contact Us

Monochrome Camera	BFS-U3-50S4M-C	1/1.8"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-766</a>	£629.00	2 In Stock
Color Camera	BFS-U3-51S5C-C	2/3"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#36-456</a>	£1,109.25	2 In Stock
Color Camera	BFS-U3-50S5C-C	2/3"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#12-752</a>	£748.00	4 In Stock
Monochrome Camera	BFS-U3-51S5M-C	2/3"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#36-455</a>	£1,109.25	2 In Stock
Polarized Color Camera	BFS-U3-51S5PC-C	2/3"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#13-928</a>	£2,040.00	2 In Stock
Polarized Monochrome Camera	BFS-U3-51S5P-C	2/3"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#12-793</a>	£2,040.00	4 In Stock
Monochrome Camera	BFS-U3-50S5M-C	2/3"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#12-751</a>	£748.00	2 In Stock
Color Camera	BFS-U3-63S4C-C	1/1.8"	6.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-510</a>	£351.90	5 In Stock
Monochrome Camera	BFS-U3-63S4M-C	1/1.8"	6.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-509</a>	£351.90	3 In Stock
Color Camera	BFS-U3-70S7C-C	1.1"	7.10	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#13-927</a>	£1,827.50	2 In Stock



Recertified

Stock No.: 13-927-RCD-05P  
Recertified Code: 05P (All Original  
Parts Included, Perfect)

# Recertified Products

Typically 1-2 Recertified Products are  
in stock at a time. Please contact our  
sales team if you would like exact  
availability of an item.

Recertified products are those  
identified with the recertified logo  
indicating they were returned to  
Edmund Optics® and cannot be sold  
as new for the following reasons:

- Open Box – Missing original  
packaging
- Cosmetic Blemishes –  
Scratches, rub marks or other  
minor cosmetic imperfections
- Service/Repair – Product has  
been serviced to the factory  
original specification
- Factory Returns – Product has  
been returned in its original  
condition



Recertified products are inspected for  
damage and any necessary repairs are  
made. Products are then certified by  
Edmund Optics® to be in good working  
order. Since quantity is low, recertified  
products are sold on a first come, first  
serve basis. Any imperfections will be  
listed in the description, indicated in the  
stock number, and categorized by the  
table below. When purchasing  
recertified products, the Edmund  
Optics® standard [return policy](#) applies.




View all our [recertified products](#) in the  
Web Specials section of our website.

Color Camera	BFS-U3- 70S7C- C	1.1"	7.10	USB 3.1 Gen 1, Micro-B with Screw Locks	C- Mount	£1,462.00	1 In Stock
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Parts		Cosmetic	
05	All Original Parts Included	P	Perfect
04	Missing Manual	N	Minor Defect/Scratches
03	Missing Manual and Small Accessory	J	Major Defect/Scratches
02	Missing Manual and Large Accessory		



Monochrome Camera	BFS-U3-70S7M-C	1.1"	7.10	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#13-926</a>	£1,827.50	1 In Stock
Color Camera	BFS-U3-88S6C-C	1"	8.90	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-512</a>	£1,389.75	1 In Stock
Color Camera	BFS-U3-89S6C-C	1"	8.90	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-514</a>	£2,490.50	3 In Stock
Monochrome Camera	BFS-U3-88S6M-C	1"	8.90	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-511</a>	£1,389.75	1 In Stock
Monochrome Camera	BFS-U3-89S6M-C	1"	8.90	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-513</a>	£2,490.50	2 In Stock
Color Camera	BFS-U3-120S4C-CS	1/1.7"	12.00	USB 3.1 Gen 1, Micro-B with Screw Locks	CS-Mount	<a href="#">#11-516</a>	£417.35	4 In Stock
Monochrome Camera	BFS-U3-120S4M-CS	1/1.7"	12.00	USB 3.1 Gen 1, Micro-B with Screw Locks	CS-Mount	<a href="#">#11-515</a>	£417.35	2 In Stock
<a href="#">#74-901 New</a>								
Color Camera	BFS-U3-120S6C-C	1/1.1"	12.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	 <p>New</p> <p>Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!</p>	£1,211.25	Contact Us
<a href="#">#74-902 New</a>								
Monochrome Camera	BFS-U3-120S6M-C	1/1.1"	12.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	 <p>New</p> <p>Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!</p>	£1,211.25	2 In Stock
Color Camera	BFS-U3-122S6C-C	1.1"	12.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-518</a>	£1,211.25	4 In Stock
Color Camera	BFS-U3-123S6C-C	1.1"	12.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-520</a>	£2,779.50	1 In Stock

Monochrome Camera	BFS-U3-122S6M-C	1.1"	12.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-517</a>	£1,211.25	2 In Stock
<div>  <b>Edmund</b>            optics   worldwide         </div>								
Monochrome Camera	BFS-U3-123S7M-C	1.1"	12.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-519</a>	£2,779.50	2 In Stock
Color Camera	BFS-U3-161S7C-C	1.1"	16.10	USB 3.1 Gen 1	C-Mount	<a href="#">#26-119</a>	£1,300.50	1 In Stock
Monochrome Camera	BFS-U3-161S7M-C	1.1"	16.10	USB 3.1 Gen 1	C-Mount	<a href="#">#26-120</a>	£1,300.50	1 In Stock
Color Camera	BFS-U3-200S6C-C	1"	20.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-522</a>	£595.00	3 In Stock
Monochrome Camera	BFS-U3-200S6M-C	1"	20.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#11-521</a>	£595.00	3 In Stock
Color Camera	BFS-U3-200S7C-C	1.1"	20.00	USB 3.1 Gen 1	C-Mount	<a href="#">#26-121</a>	£1,657.50	Contact Us
Monochrome Camera	BFS-U3-200S7M-C	1.1"	20.00	USB 3.1 Gen 1	C-Mount	<a href="#">#26-122</a>	£1,657.50	1 In Stock
<a href="#">#74-898 New</a>								
Color Camera	BFS-U3-23S6C-C	1/1.2"	2.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<div>            New            Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!         </div>	£493.00	Contact Us
<a href="#">#74-899 New</a>								
Monochrome Camera	BFS-U3-23S6M-C	1/1.2"	2.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<div>            New            Launched on our website before appearing in our latest print catalogs. Be the first to buy before anyone else!         </div>	£493.00	1 In Stock
Color Camera	BFS-U3-244S8C-C	1.2"	24.50	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-095</a>	£1,891.25	3 In Stock
Monochrome Camera	BFS-U3-244S8M-C	1.2"	24.50	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	<a href="#">#22-096</a>	£1,891.25	1 In Stock