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Teledyne Imaging 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

Manufacturer: FLIR

Physical & Mechanical Properties

Housing: Full

Sensor

Image Buffer: 240MB

Type of Sensor: Progressive Scan CMOS

Machine Vision Standard: USB3 Vision v1.0

Hardware & Interface Connectivity

Power Supply: Power over USB or via GPIO with [#88-063](#)

Synchronization: Hardware Trigger (GPIO) or Software Trigger

Interface Port Orientation: Back Panel

GPIO Connector Type: 6-pin Hirose (HR10)

Environmental & Durability Factors

Storage Temperature (°C): -30 to +60

Technical Information

Products

Type	Model Number	Camera 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	#15-837	€1.745,00	In Stock
Monochrome Camera	BFS-U3-17S7M-C	1.1"	1.70	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#15-836	€1.745,00	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	#11-506	€361,00	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	#22-085	€361,00	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	#11-505	€361,00	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	#22-086	€361,00	In Stock
Color Camera	BFS-U3-13Y3C-C	1/2"	1.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#36-452	€480,00	In Stock
Monochrome Camera	BFS-U3-13Y3M-C	1/2"	1.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#36-451	€480,00	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	#11-508	€371,00	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	#11-507	€371,00	In Stock
Color Camera	BFS-U3-16S7C-C	1.1"	1.70	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#22-087	€1.310,00	In Stock
Monochrome Camera	BFS-U3-16S7M-C	1.1"	1.70	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#22-088	€1.310,00	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	#22-089	€655,00	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	#22-090	€655,00	In Stock
Color Camera	BFS-U3-20S4C-C	1/1.7"	2.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#22-091	€910,00	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	#22-092	€910,00	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	#12-748	€421,00	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	#12-747	€421,00	In Stock
Color Camera	BFS-U3-27S5C-C	2/3"	2.80	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#22-093	€715,00	In Stock
Monochrome Camera	BFS-U3-27S5M-C	2/3"	2.80	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#22-094	€715,00	In Stock
Color Camera	BFS-U3-28S5C-C	2/3"	2.80	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#13-925	€980,00	In Stock
Monochrome Camera	BFS-U3-28S5M-C	2/3"	2.80	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#13-924	€980,00	In Stock
Color Camera	BFS-U3-31S4C-C	1/1.8"	3.10	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#12-750	€565,00	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	#12-749	€565,00	3-4 days
Color Camera	BFS-U3-32S4C-C	1/1.8"	3.20	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#36-454	€905,00	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	#36-453	€905,00	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	#22-765	€740,00	In Stock
Monochrome Camera	BFS-U3-50S4M-C	1/1.8"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#22-766	€740,00	In Stock
Color Camera	BFS-U3-51S5C-C	2/3"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#36-456	€1.305,00	In Stock
Color Camera	BFS-U3-50S5C-C	2/3"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#12-752	€880,00	In Stock
Monochrome Camera	BFS-U3-51S5M-C	2/3"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#36-455	€1.305,00	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	#13-928	€2.400,00	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	#12-793	€2.400,00	In Stock
Monochrome Camera	BFS-U3-50S5M-C	2/3"	5.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#12-751	€880,00	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	#11-510	€414,00	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	#11-509	€414,00	In Stock
Monochrome Camera	BFS-U3-70S7M-C	1.1"	7.10	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#13-926	€2.150,00	In Stock
Color Camera	BFS-U3-88S6C-C	1"	8.90	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#11-512	€1.635,00	In Stock

Color Camera	BFS-U3- 89S6C- C	1"	8.90	USB 3.1 Gen 1, Micro-B with Screw Locks	C- Mount	#11-514	€2.930,00	In Stock
Monochrome Camera	BFS-U3- 88S6M- C	1"	8.90	USB 3.1 Gen 1, Micro-B with Screw Locks	C- Mount	#11-511	€1.635,00	In Stock
Monochrome Camera	BFS-U3- 89S6M- C	1"	8.90	USB 3.1 Gen 1, Micro-B with Screw Locks	C- Mount	#11-513	€2.930,00	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	#11-516	€491,00	In Stock



Recertified

Stock No.: 11-516-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
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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-
120S4C-
CS

1/1.7"

12.00

USB 3.1
Gen 1,
Micro-B with
Screw
Locks

CS-
Mount

€392,80

3-4 days

Monochrome Camera	BFS-U3-120S4M-CS	1/1.7"	12.00	USB 3.1 Gen 1, Micro-B with Screw Locks	CS-Mount	#11-515	€491,00	In Stock
Color Camera	BFS-U3-122S6C-C	1.1"	12.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#11-518	€1.425,00	In Stock
Color Camera	BFS-U3-123S6C-C	1.1"	12.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#11-520	€3.270,00	In Stock
<div>Edmund optics worldwide</div> <div>Copyright 2023 Edmund Optics, Ltd Unit 1, Opus Avenue, Nether Poppleton, York, YO26 6BL, UK Phone: 1-800-363-1992 : www.edmundoptics.com</div>				USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#11-517	€1.425,00	3-4 days
Monochrome Camera	BFS-U3-123S6M-C	1.1"	12.30	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#11-519	€3.270,00	In Stock
Color Camera	BFS-U3-161S7C-C	1.1"	16.10	USB 3.1 Gen 1	C-Mount	#26-119	€1.530,00	In Stock
Monochrome Camera	BFS-U3-161S7M-C	1.1"	16.10	USB 3.1 Gen 1	C-Mount	#26-120	€1.530,00	In Stock
Color Camera	BFS-U3-200S6C-C	1"	20.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#11-522	€700,00	In Stock
Monochrome Camera	BFS-U3-200S6M-C	1"	20.00	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#11-521	€700,00	In Stock
Color Camera	BFS-U3-200S7C-C	1.1"	20.00	USB 3.1 Gen 1	C-Mount	#26-121	€1.950,00	In Stock
Monochrome Camera	BFS-U3-200S7M-C	1.1"	20.00	USB 3.1 Gen 1	C-Mount	#26-122	€1.950,00	In Stock
Color Camera	BFS-U3-244S8C-C	4/3"	24.50	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#22-095	€2.225,00	In Stock
Monochrome Camera	BFS-U3-244S8M-C	1.2"	24.50	USB 3.1 Gen 1, Micro-B with Screw Locks	C-Mount	#22-096	€2.225,00	In Stock