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TECHNOLOGY GROUP

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Flea3 USB3

Model: FL3-U3-20E4C-C: Discontinued

The Flea®3 line of USB3 Vision, GigE Vision and FireWire cameras offers a variety of CMOS and CCD image sensors in a compact package. The Flea3 leverages a variety of Sony, ON Semi, and e2v sensors ranging from 0.3 MP to 5.0 MP and from 8 FPS to 120 FPS. For FLIR GigE and USB3 cameras with the latest sensors and most advanced feature sets, please refer to our Blackfly S and Oryx camera families.

SPECIFICATIONS

Part Number	FL3-U3-20E4C-C
Resolution	1600 × 1200
Frame Rate	59
Megapixels	2
Chroma	Color

Sensor Name	e2v EV76C5706F
Sensor Type	CMOS
Sensor Format	1/1.8"
Readout Method	Global shutter
Pixel Size	4.5
Lens Mount	C-mount
ADC	10-bit
Required Accessories	Lens, Cable, Host Adapter (USB 3.1 Gen 1), Tripod Mount Adapter (ACC-01-0003)

FEATURES

Exposure Range	0.014 ms to 898 ms
Flash Memory	1 MB non-volatile memory
Frame Rate	59
Gain Range	0 dB to 24 dB
Image Buffer	32 MB
Image Processing	Gamma, lookup table, hue, saturation, and sharpness
Partial Image Modes	Pixel binning, ROI
Trigger Modes	Standard, multi-shot
User Sets	2 memory channels for custom camera settings

PERFORMANCE

Dynamic Range dB	46.76
Power Consumption	<3 W
Quantum Efficiency	38 (% at 525 nm)
Quantum Efficiency Blue	38 (% at 470 nm)

Quantum Efficiency Green	37 (% at 525 nm)
Quantum Efficiency Red	35 (% at 640 nm)
Saturation Capacity (e-)	5853
Temporal Dark Noise (e-)	20.84

PHYSICAL

ADC	10-bit
Auxiliary Output	3.3 V, 150 mA maximum
Chroma	Color
Dimensions [W x H x L]	29 mm × 29 mm × 30 mm
Interface	USB 3.1 Gen 1
Lens Mount	C-mount
Mass	35 grams
Megapixels	2
Non-isolated I/O Ports	2 bi-directional
Operating Humidity	20 to 80% (no condensation)
Operating Temperature	0° to 45°C
Opto-isolated I/O Ports	1 input, 1 output
Part Number	FL3-U3-20E4C-C
Pixel Size	4.5
Power Requirements	5-24 V via GPIO or 5 V via USB3
Readout Method	Global shutter
Resolution	1600 × 1200
Sensor Format	1/1.8"

Sensor Name	e2v EV76C5706F
Sensor Type	CMOS
Serial Port	1 (over non-isolated I/O)
Storage Humidity	20 to 95% (no condensation)
Storage Temperature	-30° to 60°C

RECOMMENDED SYSTEM CONFIGURATION

CPU	3.1 GHz or equivalent CPU
Hard Drive	200 MB hard drive space
Operating System	Windows or Linux (32–bit or 64–bit)
Port	USB 3 Port
RAM	2 GB RAM or more
Required Accessories	Lens, Cable, Host Adapter (USB 3.1 Gen 1), Tripod Mount Adapter (ACC-01-0003)

COMPLIANCE & CERTIFICATIONS

Compliance	CE, FCC, KCC, RoHS. The ECCN for this product is: EAR099.
Machine Vision Standard	USB3 Vision v1.0
Warranty	3 years

VIEW LESS

ACCESSORIES

CABLES

USB 3.1 Locking Cable »

USB 3.1 Locking Cable (Cast Metal Connectors) »

GPIO CABLES —

Hirose HR25 Circular Connector GPIO Cable »

HOST ADAPTERS —

USB 3.1 Host Controller Card »

HUBS AND REPEATERS —

USB 3.1 Hub »

OPTICAL MOUNTS —

CS to C Mount 5mm Spacer Adapter »

CS to M12 Microlens Adapter »

TRIPOD ADAPTERS —

Tripod Adapter for BFS (30mm), BFLY, CMLN, CM3, FFMV, FL2, FL3, FMVU »

CONNECTORS —

Hirose HR25 Circular GPIO Connector »

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