

Flea[®] 3

ULTRA-COMPACT + DISTANCE + COST-EFFECTIVE

- Choice of 4 Sony progressive scan CCD's, mono or color
- FireWire 800 Mbit/s interface
- Ultra-compact 29 x 29 x 30 mm metal case, 58 grams
- Complies with IIDC 1.32

The fully redesigned, next generation Flea3 camera series builds on the success of the ultra-compact Flea2 by adding new Sony image sensors to the line-up. The Flea3 offers a host of new features, including enhanced opto-isolated GPIO; an on-camera frame buffer; non-volatile user data storage; new trigger modes; and improved imaging performance.



FireWire Models

FL3-FW-03S1C/M-C	0.3MP	Sony ICX618 CCD, 1/4", 5.6µm, Global Shutter	648x488 at 120 fps
FL3-FW-03S3C/M-C	0.3MP	Sony ICX414 CCD, 1/2", 9.9µm, Global Shutter	648x488 at 76 fps
FL3-FW-14S3C/M-C	1.4MP	Sony ICX267 CCD, 1/2", 4.65µm, Global Shutter	1384x1032 at 16 fps
FL3-FW-20S4C/M-C	2.0MP	Sony ICX274 CCD, 1/1.8", 4.4µm, Global Shutter	1624x1224 at 15 fps

Analog-to-Digital Converter	Analog Devices 12-bit ADC
Video Data Output	8, 12, 16 and 24-bit digital data
Image Data Formats	Y8, Y16, Mono8, Mono12, Mono16 (all models) RGB, YUV411, YUV422, Raw8, Raw12, Raw16 (color models)
Color Processing	On-camera in YUV or RGB format, or on-PC in Raw format
Digital Interface	IEEE 1394b 800 Mbit/s interface with screw locks for camera control, data, and power
Transfer Rates	100, 200, 400, 800 Mbit/s
Partial Image Modes	pixel binning and region of interest modes via Format_7
White Balance	automatic / manual modes, programmable via software
General Purpose I/O Ports	8-pin Hirose HR25 GPIO connector opto-isolated pins for trigger, pwm and strobe, bi-directional pins for trigger, strobe, pwm or serial port
Gain Control	automatic / manual / one-push gain modes, programmable via software, 0dB to 24dB in 0.046dB increments
Shutter Speed	automatic / manual / one-push modes, programmable via software, 0.02ms to greater than 10s (extended shutter mode)
Gamma/LUT	0.50 to 4.00 / programmable lookup table
Synchronization	via external trigger or software trigger
External Trigger Modes	DCAM v1.32 Trigger Modes 0, 1, 3, 4, 5, 14 (overlapped trigger), and 15 (multi-shot trigger)
Power Consumption	power via Vext GPIO pin or 9-pin 1394b interface: 8 to 30 V, less than 2.5 W
Dimensions (L x W x H)	29mm x 29mm x 30mm (excluding lens holder; without optics)
Mass	58g (without optics)
Memory Storage	32 MB frame buffer; 1 MB non-volatile user data flash
Memory Channels	2 memory channels for user configuration sets
Camera Specification	IIDC 1394-based Digital Camera Specification v1.32, compatible with IEEE-1394b and IEEE-1394a interfaces
Lens Mount	C-mount
Emissions Compliance	CE, FCC-A, RoHS
Operating Temperature	0° to 45°C
Storage Temperature	-30° to 60°C
Warranty	2 year

