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TECHNOLOGY GROUP

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FLIR GRASSHOPPER® 1394b





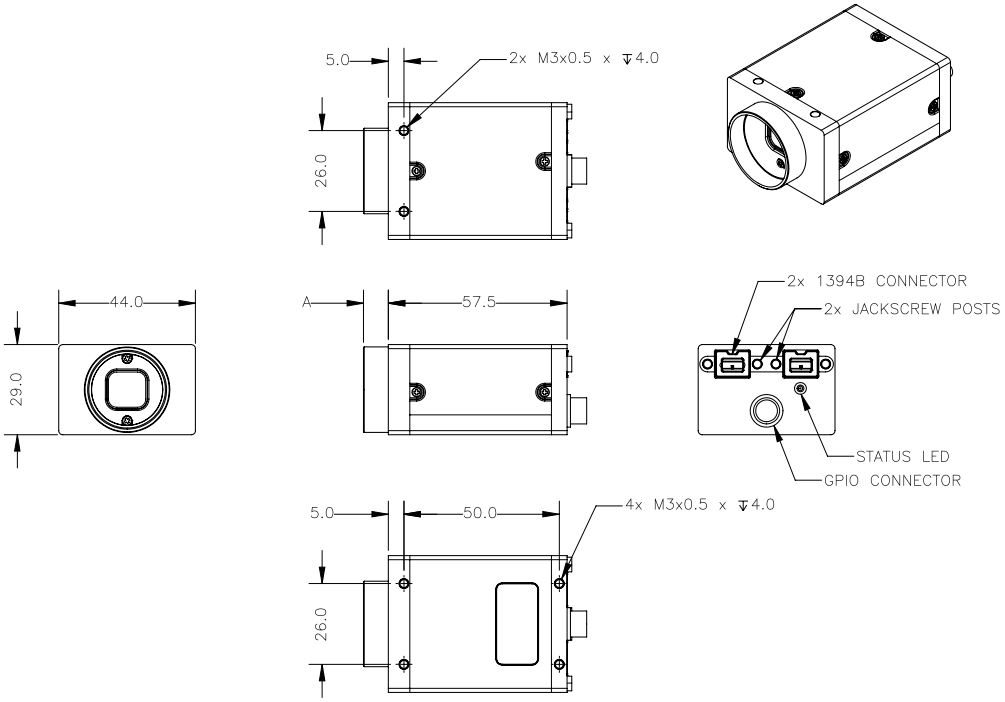
HIGH RESOLUTION + HIGH FPS + COMPACT

The Grasshopper digital camera line is a complete, cost effective and reliable imaging solution. A variety of large format, high resolution image sensors, combined with an IEEE-1394b 800Mb/s interface, makes the Grasshopper an ideal choice for demanding imaging applications such as semiconductor inspection and high-speed assembly.ance.

KEY FEATURES

- High speed 14-bit A/D converter
- Dual IEEE-1394b ports for daisy chaining
- Industry standard design, compact case

FireWire



MODEL	VERSION	MP	IMAGING SENSOR
GRAS-03K2C-C	Color	0.3 MP	■ Kodak KAI0340 CCD, 1/3", 7.4 µm ■ Global Shutter ■ 640x480 at 200 FPS
GRAS-03K2M-C	Mono		
GRAS-03S3M-C	Mono	0.3 MP	■ Sony ICX414 CCD, 1/2", 9.9 µm ■ Global Shutter ■ 648x488 at 74 FPS
GRAS-14S3C-C	Color	1.4 MP	■ Sony ICX267 CCD, 1/2", 4.65 µm ■ Global Shutter ■ 1384x1032 at 21 FPS
GRAS-14S3M-C	Mono		
GRAS-14S5C-C	Color	1.4 MP	■ Sony ICX285 CCD, 2/3", 6.45 µm ■ Global Shutter ■ 1384x1036 at 15 FPS
GRAS-14S5M-C	Mono		
GRAS-20S4C-C	Color	2.0 MP	■ Sony ICX274 CCD, 1/1.8", 4.4 µm ■ Global Shutter ■ 1624x1224 at 30 FPS
GRAS-20S4M-C	Mono		
GRAS-50S5C-C	Color	5.0 MP	■ Sony ICX625 CCD, 2/3", 3.45 µm ■ Global Shutter ■ 2448x2048 at 15 FPS
GRAS-50S5M-C	Mono		

A/D Converter	14-bit
Image Data Output	8, 12, 16 and 24-bit digital data
Image Data Formats	Y8, Y16 (all models), RGB, YUV411, YUV422, YUV 444, 8- bit and 16-bit raw Bayer data (color models)
Partial Image Modes	Pixel binning and region of interest (ROI) modes
Image Processing	Gamma, lookup table, white balance
Gain	Automatic/Manual/One-Push Gain modes
	0 dB to 24 dB
Gamma	0.50 to 4.00, programmable lookup table
White Balance	Automatic/manual modes, programmable via software
Color Processing	On-camera in YUV or RGB format, or on-PC in Raw format
Digital Interface	Two IEEE-1394b interfaces with screw locks for camera control, video data transmission, and power
Transfer Rates	100, 200, 400, 800 Mb/s
GPIO	8-pin Hirose HR25 GPIO connector for power, trigger, strobe, PWM, and RS232
External Trigger Modes	IIDC Trigger Modes 0, 1, 3, 14, and 15
Synchronization	Via external trigger or software trigger
Shutter	Global Shutter
	Automatic/Manual/One-Push/Extended Shutter modes
	0.02 ms to >10 seconds (extended shutter mode)
Image Buffer	32 MB frame buffer
Memory Channels	2 memory channels for custom camera settings
Flash Memory	512 KB
Dimensions	58 mm x 44 mm x 29 mm (excluding lens holder and connectors)
Mass	104 g (without optics or tripod mounting bracket)
Power Consumption	8 to 30 V, 3.5 W at 12 V via GPIO or FireWire interface
Camera Specification	IIDC v1.31
Camera Control	via FlyCapture SDK, CSRs, or third party software
Camera Updates	In-field firmware updates
Lens Mount	C-mount
Temperature	Operating: 0° to 40°C; Storage: -30° to 60°C
Emissions Compliance	CE, FCC, RoHS
Operating System	Vista SP1, Windows7, Linux Ubuntu 8.04
Warranty	Three years

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