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TECHNOLOGY GROUP

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Artisan Technology Group
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Grasshopper Express™

HIGH PERFORMANCE + HIGH SPEED CCDS + COMPACT

- High speed 1394b 800 Mb/s digital interface
- Compact 44 x 29 x 58 mm case with C-mount lens holder
- Opto-isolated GPIO for industrial trigger and strobe

The new Grasshopper Express camera series features a completely new hardware platform designed to accommodate a wide range of high speed Kodak and Sony image sensors. The Grasshopper Express is housed in the same compact metal case as the original Grasshopper. The camera also comes complete with a variety of new features, including enhanced opto-isolated GPIO, new hardware trigger modes, and improved imaging performance.



GX-FW-10K3M-C	Mono	1.0 MP	▪ Kodak KAI-01050 CCD 1/2", 1/2", 5.5 µm ▪ Global Shutter ▪ 1024x1024 at 70 FPS
GX-FW-28S5C-C	Color	2.8 MP	▪ Sony ICS674 CCD 2/3", 2/3", 4.54 µm ▪ Global Shutter ▪ 1932x1452 at 26 FPS
GX-FW-28S5M-C	Mono		
GX-FW-60S6C-C	Color	6.0 MP	▪ Sony ICX694 CCD, 1", 4.54 µm ▪ Global Shutter ▪ 2736x2192 at 11 FPS
GX-FW-60S6M-C	Mono		

A/D Converter	14-bit
Image Data Output	8, 12, 16 and 24-bit digital data
Image Data Formats	Y8, Y16, Mono8, Mono12, Mono16 (all models) RGB, YUV411, YUV422, YUV444, Raw8, Raw12, Raw16 (color models)
Partial Image Modes	Pixel binning and region of interest (ROI) modes
Image Processing	Gamma, lookup table, hue, saturation, and sharpness
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
High Dynamic Range	Cycle 4 gain and exposure presets
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	800 Mbit/s
GPIO	8-pin Hirose HR25 GPIO connector for power, trigger, strobe, PWM, and serial I/O, 1 opto-isolated input, 1 opto-isolated output, 2 bi-directional I/O pins
External Trigger Modes	IIDC Trigger Modes 0, 1, 3, 14, and 15
Synchronization	Via external trigger, the IEEE 1394b bus, or free running
Shutter	Global Shutter
	Automatic/Manual/One-Push/Extended Shutter modes
	0.04 ms to >1.5 seconds (extended shutter mode)
Image Buffer	32 MB frame buffer
Memory Channels	2 memory channels for custom camera settings
Flash Memory	1 MB
Dimensions	44 mm x 29 mm x 58 mm excluding lens holder, without optics (metal case)
Mass	86 grams (without optics or tripod mounting bracket)
Power Consumption	8 to 30 V, ~5 W, via GPIO or 1394b interface
Camera Specification	IIDC v1.32
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, Windows 7
Warranty	Three years

North America T +604.242.9937 E sales@ptgrey.com Europe T + 49 7141 488817-0 E eu-sales@ptgrey.com www.ptgrey.com Oct 2012

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

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