



High Speed. High-G.



HG-100K / HG-LE

REDLAKE DIGITAL IMAGING SYSTEMS

HG-100K / HG-LE

100G in any axis

**Global Electronic Shutter
variable to 5 μ s**

Up to 2 GB (LE) 4GB (100K) Memory

Battery Backup

LIVE While Recording

100-Base-T / 1.000 Base-T Ethernet



Designed for capturing high-speed events in harsh environments, the HG-100K/HG-LE system consists of three major components:

The high-speed, rugged camera. A built-in battery back-up preserves the recording if a power failure occurs after the event is captured.

An optional Hub Sync Unit, which functions both as a High-G Gigabit Ethernet switch and precision time source providing frame synchronization within $\pm 2.5\mu$ s. The Hub withstands shock up to 100G in any axis.

MotionCentral™ software for camera control, and image download and viewing has intuitive control features and supports networks of one to 250 HG-100K, HG-LE and/or HG2000/HG-TX cameras.

An optional tablet style Display Control Unit (DCU) makes setup of remotely located cameras fast and easy.

Featuring a 1.7 megapixel CMOS sensor, the MotionXtra® HG-100K offers a true replacement for high-speed film cameras. Capable of record rates from 1000 frames per second at full resolution, to an incredible 100,000 frames per second at reduced resolutions the HG-100K offers performance not found in any other CMOS camera.

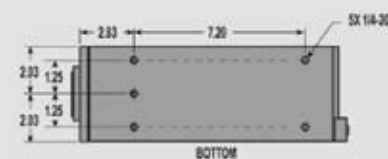
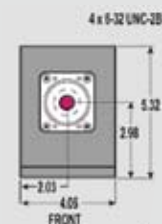
As a self-contained camera, the MotionXtra® HG-LE is easy to set up and ready to use with a simple installation of MotionCentral™ software and an Ethernet connection. Within minutes, the HG-LE identifies itself and presents a live image on your camera control screen. The HG-LE offers mid-range frame rates and resolution at a price that is easily affordable.

The Ethernet interface allows remote camera control and fast 1000 Base-T transfer of uncompressed file formats including TIFF and compact Type-2 Bayer. High-quality JPEGs may be downloaded, providing excellent image quality at a fraction of the file size. AVI files using popular codecs (compressed or uncompressed) may be produced in tandem with any image download.

Whether you choose the HG-100K for maximum performance or the HG-LE for value performance, your imaging needs are covered. You can now select from two tiers of products, delineated by performance and pricing, all operating within the same networking environment.

Technical Data

	HG-100K	HG-LE
Maximum fps @ Full Resolution	1,000 fps @ 1504 x 1128	1,000 fps @ 752 x 1128
Array Size	1.7 megapixels	0.85 megapixels
Max fps @ Reduced Resolution	100,000 fps @ 64 x 24	30,000 fps @ 128 x 128
Sensitivity	1500 ASA Mono 750 ASA Color	1500 ASA Mono 750 ASA Color
Pixel Size	12x12 µm	12x12 µm
Color Mono	Available Available	Available Available
Memory Options	Internal 2 or 4 GB RAM (4 GB = 2,500 frames at 1,000 fps @ 1504 x 1128)	Internal 1 or 2 GB RAM (2 GB = 1,250 frames at 1,000 fps @ 1504 x 1128)
Trigger	TTL & Switch	TTL & Switch
Sync (Input)	Frame sync or STP Cable	Frame sync or STP Cable
IRIG	N/A	N/A
GPS Time Code	N/A	N/A
Sync (Output)	Sync Out (BNC)	Sync Out (BNC)
HDMI	N/A	N/A
Comp Video	N/A	N/A
Camera Link	N/A	N/A
Ethernet	100/1000BaseT	100/1000BaseT
USB 2.0	N/A	N/A
Shock/Vibration rating	100G - All axes	100G - All axes
Battery Back-up	Battery Back-up (6 hrs.)	Battery Back-up (6 hrs.)
MotionPro X	Mac or Windows	Mac or Windows
Motion Central	Windows	Windows
Plug-ins/MotionPro X	LabVIEW or MatLab	LabVIEW or MatLab
File Formats - MotionPro X	TIF BMP AVI MRF MCF	TIF BMP AVI MRF MCF
File Formats - Motion Central	Type-2 Bayer, TIFF, JPEG and AVI	Type-2 Bayer, TIFF, JPEG and AVI
H x W x L	135 x 105 x 282 mm	135 x 105 x 282 mm
Weight	5 kg	5 kg



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REDLAKE

MotionXtr HG-100

