

///MotionXtra™ HG-LE

Built on the same great design and extensive features of the industry-leading HG-100K, the *MotionXtra™ HG-LE* delivers the excellence in image quality and the performance reliability that you have come to expect from Redlake.

The *HG-LE* offers mid-range frame rates and resolution at a price that is easily affordable. The camera is fully compatible with the *MotionXtra™ HG-100K* and prior Redlake HG2000, CR2000, and HG-TX cameras.

As a self-contained camera, the *MotionXtra™ HG-LE* is easy to set up and ready to use with a simple installation of the *MotionCentral™* software and an Ethernet connection. Within minutes, the *HG-LE* identifies itself and presents a live image on your camera control screen. The versatility and flexibility of the *HG-LE* are evidenced by its ease of setup and use, whether in a one-camera system or with hundreds of cameras in a network.

The Ethernet interface allows remote camera control and 1000Base-T fast transfer of compact Type-2 Bayer or TIFF format images.

Designed as a complete imaging system, the *HG-LE* system consists of three major components:

- The high-speed, rugged *HG-LE* Camera
- An optional Hub Sync Unit, which functions as a High-G Gigabit Ethernet switch. The Hub Sync Unit ensures the frame synchronization of multiple cameras to within +/-2.5µs. The camera and Hub can withstand shock up to 100G in any axis.
- The *MotionCentral™* software for camera control, image download and viewing. It is capable of supporting a large number of HG-100K and/or HG2000/HG-TX cameras in a dedicated camera network.

An optional tablet style Display Control Unit (DCU) makes the setup of remotely located cameras fast and easy. A small back-up battery is included within the camera to preserve the recording should a power failure occur after the event.

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.

High-Speed, High-Resolution, Extraordinary Performance and Value



S N A P S H O T

- **0.35 micron CMOS sensor exclusive to Redlake, color or monochrome**
- **1500 fps at 752 x 752, up to 100,000 fps at reduced resolutions**
- **Very fast 5µs global electronic shutter eliminates motion blur**
- **Rugged design: withstands up to 100G in any axis**
- **Fast, accurate, reliable camera networking**
- **1000Base-T Ethernet® for fast downloads**
- **1 GB memory**
- **Compatible with all previous Redlake legacy cameras (HG 100K, HG2000/HG-100+/CR/HG-TX)**

A P P L I C A T I O N S

- **Vehicle impact testing (VIT)**
- **Airbag deployment**
- **Component safety testing**
- **Research, design and test**
- **Production and manufacturing**
- **Range, aerospace and ballistics**



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PERFORMANCE SPECIFICATIONS

Sensor Array	16-Channel, 752 x 1128 pixels, CMOS Sensor, Color or Monochrome
Image Resolution	Up to 752 x 1128
Dynamic Range	62 dB at sensor and 25°C (77°F) ambient temperature
Recording Rates	30, 60, 125, 250, 500, 1000 Full fps; Up to 100,000 partial fps; variable frame rate via external source
Shutter	Global Electronic Shutter variable to 5µs
Trigger Frame	Variable position from start to the maximum available frame capacity
Trigger Mode	TTL, 5V-tolerant, user selectable polarity, or switch closure
Synchronization	All cameras are synchronized to a master precision clock when using optional Hub Sync Unit within +/- 2.5 µs
On-Board Storage	1 GB memory storage
Camera Size	Dimensions: 5.33"(H) x 4.15"(W) x 11.10" (L) (135 x 105 x 282mm); Weight: 9.9 lbs (4.5kg)
Camera Interface	Camera Network (100/1000Base-T Ethernet); Sync I/O; Trigger In; Power; Strobe Out
Cable Lengths	Camera to Hub: up to 328 ft (100m); Hub to Hub/Control PC: up to 328 ft (100m)
Lens Mount	C-mount, F-mount, and High-G Box-mounts available
Hub Sync Unit Size	Dimensions and Weight: 2.16"(H) x 13"(W) x 13" (L) (55 x 330 x 330mm); Weight: 11 lbs (5Kg)
Hub Sync Unit Interface	Camera/Hub Sync Unit/Control PC Network; Trigger I/O; Power I/O; Legacy Port to connect HG D-Box or HG J-Box for multiple Legacy cameras (HG2000/HG-100+/CR/HG-TX)
Power	Camera: +20 to 50 VDC @ 40W; Hub: +20 to 50 VDC @ 50W
Shock	Camera and Hub: 100G @ 5ms min. any axis, 1000 cycles
Operating Temperature	0°C to +50°C Ambient (32°F to 122°F)
Control Software	MotionCentral™. Windows™ 2000, XP and NT 4.0 SP6 compatible
File Formats	Type-2 Bayer, TIFF, JPEG; 8-bit mono, 24-bit color
Reticle	Full Screen Crosshair with X, Y Coordinate Display
Options	Tablet Style Display Control Unit (DCU)
Emission/Safety	CE approved, FCC Class B compliant, UL recognized (camera), UL listed (Hub Sync Unit)

Note: Specifications are subject to change.

Resolution	Frame Rate	Max. Session Length (Frames)	Max. Record Time (Seconds)
752x752	1500	1898	1.235
752x564	2000	2530	1.265
640x480	2500	3494	1.398
512x512	3000	4094	1.365
512x320	5000	6550	1.310
128x128	30,000	65,280	2.176



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