High Speed. High G.

IDT

HG-TH / HG-CH

REDLAKE DIGITAL IMAGING SYSTEMS

HG-TH / HG-CH

Up to four 752x564 resolution color or mono heads per controller

Configurable frame rates from 1,000 fps to 50,000 fps.

Very thin mechanical design

Fast 5µs global electronic shutter

Rugged design

NTSC/PAL and digital output

Built on the same great design and the extensive feature set of the industry standard HG-100K, the MotionXtra®HG-TH and HG-CH high-g camera systems deliver excellence in image quality, performance, and reliability.

Small and lightweight to fit into confined spaces and onto low mass mounting surfaces, the two tethered head designs offer versatility. Flexible in configuration, you can choose from one to four camera heads (any mix of HG-TH and the smaller HG-CH), and from 2 to 8 GB of memory per controller.

The camera system gives you all of the advanced features you need for synchronized multi-view imaging with heads that will fit in small spaces and with significant weight savings. You can choose the head configuration that best meets your specific imaging needs now and add more camera heads later.

The system is fully compatible with the latest Motion-Xtra HG-XR, HG-100K, and HG-LE and legacy HG2000, CR2000, and HG-TX cameras.
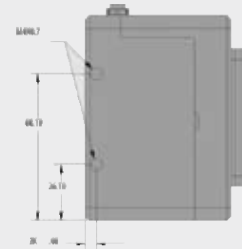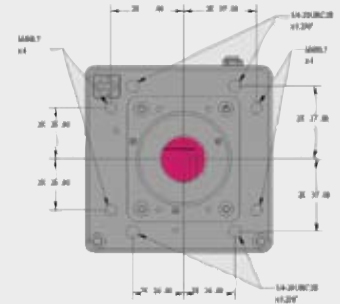
The Ethernet interface allows remote camera control and fast 1000 Base-T transfer of uncompressed file formats including TIFF and compact Type-2 Bayer. High-quality JPEGs may be downloaded, providing excellent image quality at a fraction of the file size. AVI files using popular codecs (compressed or uncompressed) may be produced in tandem with any image download.
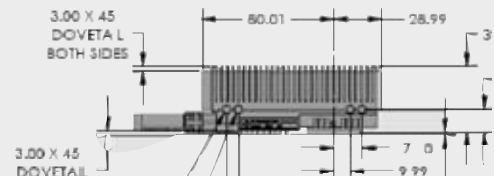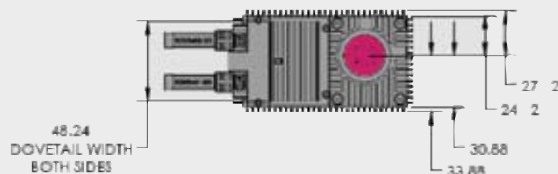
Technical Data

	HG-TH	HG-CH
Maximum fps @ Full Resolution	1,000 fps @ 752 x 564	1,000 fps @ 752 x 564
Array Size	0.4 megapixels	0.4 megapixels
Max fps @ Reduced Resolution	50,000 fps @ 80 x 40	50,000 fps @ 80 x 40
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 4 or 8 GB RAM per Controller Unit (divided by 1-4 cameras)	Internal 4 or 8 GB RAM per Controller Unit (divided by 1-4 cameras)
Trigger	TTL & Switch	TTL & Switch 5
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	Comp Video	Comp Video
Camera Link	N/A	N/A
Ethernet	10/1000BaseT	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	Controller: 94x168x202 mm Head: 95x95x68 mm	Controller: 94x168x202 mm Interface Box: 43x95x95 mm Head: 40x61x109 mm
Weight	Controller: 4.5 kg Head: 1.25 kg	Controller: 4.5 kg Interface Box: 0.8 kg Head: 0.7 kg

TH

all dimensions shown in mm

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