

V6.0

Multi-Head HS IMAGER



Specifications:

Use up to 4 camera heads
High-g configuration
High speed image capture
Continuous recording
Pre-trigger recording
Post-trigger recording
On chip shutter
Strobe sync
Integral image memory*
Continuous video output
IRIG-B timing capture
FireWire™ digital interface
for local or remote system control
of multiple cameras

Camera Head Sensors:

512 x 512 pixel, SR-CMOS color
or monochrome array

Pictures per Second (PPS): Full sensor
up to 1000 PPS

Allocated formats: to 32,000 PPS

Exposure Time:

Variable, independent of sample rate
(PPS), to 10µsec, 5µsec optional

Post Trigger:

Continuously variable

Imager Controls:

Via FireWire™ digital interface, or
optional RS232 serial interface, SDK
available

Viewfinder and Focusing:

Via continuous video output, desktop
PC or laptop monitor

Lens Mounts:

1" C-Mount standard.
Other special order lens mounts
available.

INPUTS (via integrated quick-release
connector*):

Start Trigger: TTL pulse, or switch
closure.

Sync Image: TTL pulse

Event Marker: TTL or closure

IRIG-B Timing: Modulated and un-
modulated

Power: 28VDC/1 Amp.

OUTPUTS: (via integrated quick-
release connector unless other wise
noted*):

Strobe Sync: TTL pulse.

Network: Via FireWire™ digital
interface (IEEE 1394)

Ready Signal: TTL pulse

Display: Continuous video output RS-
170/CCIR

MEMORY

Standard: 512 megabytes integral
image memory. Records 512 images
per head for 1/2 second of continuous
recording at 1000 PPS, full format.
Longer recording times for lower
sample rates and allocated formats.
(example: 5 seconds at 100 PPS)

Optional: 1, 2, or 4 gigabyte integral
image memory. Records 4048 images
per head for 4.0 seconds continuous
recording at 1000 PPS, full format.

Optional: Non-Volatile Flash Memory,
up to 1 gigabyte (recommended for all
high-g applications) available 1Q02

ENVIRONMENTAL

100g up to 10 millisecond
50g up to 100 millisecond
Three axis

SOFTWARE

*Phantom® operates in a Windows 98
SE™ and Win2000 Pro™ environment
with familiar commands found in
familiar places. Standard functions
include:*

Acquisition: Image capture, IRIG-B
timing capture & standard time
annotation. Field of view & focus.
Sample rate & aspect ratio selection.
Shutter speed. Histogram. Brightness &
contrast adjust. Trigger modes. Con-
tinuous record. Save & recall setups.

Analytical playback: Immediate
playback of single or multiple cinés.
Variable playback speeds in forward or
reverse, including freeze frame &
endless loop. Random Go-to-Image.
View single images at random from any
ciné. Tile/cascade multiple images on
one screen. Timing data displayed with
each image. Ciné editor.

Measurements: Linear or angular
measurements. Displacement. Velocity.
RPMs. 100 data points per image.
English and metric units. Generate
measurement reports. Report files &
images are compatible with spread-
sheet software, and image analysis
software such as TrackEye®, Image
Express®, or Map®.

Image processing: Smooth, sharpen,
pseudocolor, negative image, and edge
detection. Brightness, contrast &
gamma adjust. 3x3 and 5x5 filter
matrix for custom image processing.
Unprocessed original ciné is saved as a
separate file.

File management: Organize, save,
compress and export cinés, or single
images. File formats are compatible
with most word processing, desktop
publishing, and presentation software.

DIMENSIONS

Head Size: 3x3x2 inch (HWD)

Controller Size: 5.75x8x4.5 inch
(HWD)

Head Weight: 1 lbs

Controller Weight: 5 lbs

Power: 28VDC/ 1Amp

Head Mounting: 1/4-20 inch in base,
top and sides

Body Mounting: Slotted rail on base
accepts #10 screw diameter

Mounting Axis: Any position

Material & Finish: Powder Coat
aluminum housing.

Country of Origin: The United States of
America

STANDARD ACCESSORIES

Phantom® software. Single user
license*

512 Megabyte integral image memory

5M FireWire® digital interface cable,
3M head cable, breakout cable w/sync
in, strobe, video, IRIG, and trigger

110/220VAC-28VDC International
Power Adapter. 12 foot (3.7 m) power
cord

Integrated electronic help documenta-
tion. One year warranty.

QUESTIONS?

For technical assistance, systems
integration, custom options, or
information on imaging techniques,
please call us toll free USA & Canada:
1.800.RESOLUTION (1.800.737.6588)

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Vision Research, Inc. • 190 Parish Drive • Wayne, New Jersey 07470 USA • (973) 696-4500 Fax (973) 696-0560

Rev. 9/1/01