

v6.2e Multi-Head HS Imager Specifications



Features

Auto Exposure

“EDR” Extreme Dynamic Range™

HYGE configuration (optional)

Continuous recording

Pre-trigger recording

Post-trigger recording

On chip global shuttering

Strobe sync

Integral image memory

Continuous color video output

IRIG-B timing capture with phase shift

10/100/Gigabit Ethernet

Sensor: 512 x 512 pixel SR-CMOS sensor.

Image Bit Depth: 10-bit

Sensitivity: 4800 ISO/ASA monochrome, 1200 ISO/ASA color

Pictures per Second (PPS): Full sensor; to 1,400pps

Exposure Time: Variable, independent of sample rate, to 10 microseconds (5 microseconds option)

Trigger: Continuously variable pre/post

Imager Control: 10/100/Gigabit Ethernet, or RS232 serial interface

Preview and Focusing: Via computer monitor or continuous video out

Lens Mounts: 1” C-mount standard. Many other lens mounts available, including Nikon

Inputs/Outputs: via integrated quick-release connector:

Trigger: Rising/falling TTL pulse w/filter, or switch closure

Sync Image: TTL pulse

Event Marker: TTL pulse or switch closure

Ready Signal: TTL pulse

IRIG-B Timing: IRIG-B code, modulated or unmodulated input, with IRIG-B output, lock, and variable phase shift

Strobe Sync: TTL Pulse

RS232

Network: 10/100/Gigabit Ethernet

Video out: RS-170 (NTSC, PAL), and SDI (Serial Digital Interface)

Power: 24VDC/1.0 Amp

MEMORY

Standard: 1024 megabytes integral image memory. Records 1,024 images per head for 1 second of continuous recording at 1,000pps, full format.

Longer recording times for lower sample rates and allocated formats.

Optional: 2, 4, or 8 Gigabyte integral image memory. Records 8,096 images per head for 8.0 seconds continuous recording at 1,000pps, full format.

Optional: Non-Volatile Flash Memory, up to 6 gigabyte (recommended for all HYGE applications)

ENVIRONMENTAL

Ambient Temperature

32°F and 104°F (0°C and 40°C)

Maximum humidity: 80%, non-condensing, at 5°C

SOFTWARE

Phantom® operates in a Windows 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, & gamma adjust. Trigger modes. Continuous record. Save & recall setups.

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

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

Image processing: Smooth, sharpen, psuedocolor, negative image, and edge detection. Brightness, contrast & gamma adjust. 3x3 and 5x5 filter matrix for custom image processing.

File management: Organize, save, compress and export cines, 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 lb

Controller Weight: 5 lbs

Power: 24VDC/1 Amp

Mounting: 1/4-20 inch and four 10-32 threaded hole pattern in base and top

Mounting Axis: Any position

Material & Finish: Machined aluminum housing, plated finish

Country of Origin: The United States of America

STANDARD ACCESSORIES

Phantom® software, Single user license*

1024 Megabyte integral image memory

5m Ethernet cable, 5m head cable, breakout cable w/sync in, strobe, video, IRIG, and trigger

110/220VAC -24VDC International Power Adapter, 12 foot (3.7 m) power cord

One year warranty

QUESTIONS?

For technical assistance, systems integration, custom options, or information on imaging techniques or training please call us toll free:

1.800.RESOLUTION

(US & Canada 1.800.737.6588)

For the most up-to-date information, specifications and options, please visit our website:

www.visionresearch.com

VISION RESEARCH

Specifications and features subject to change without notice.

(* Other options available) Phantom is manufactured in the USA under US Patent Number 5625412 and patents pending. Phantom®, EDR®, and Memory Gate® are registered trademark of Vision Research Inc. Windows™ and Windows logo are trademarks of Microsoft Corporation.

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