

v9.0**NEW****Specifications****Features**

Auto exposure
 "EDR" Extreme Dynamic Range™
 High-g configuration
 Optional Continuous data streaming
 to 500pps
 Range data input
 Continuous recording
 Pre-trigger recording
 Post-trigger recording
 On chip global shuttering
 Strobe sync
 Segmented integral image memory
 Continuous color video output
 IRIG-B timing capture with phase shift
 10/100/Gigabit Ethernet

Sensor: 10 bit 1600 x 1200 pixel SR-CMOS monochrome, or color SR-CMOS array

Sensitivity: 2400 ISO monochrome, 600 ISO color equivalency

Pictures per Second (PPS): Full sensor to 1,000pps

Allocated formats: to 144,175pps with "CAR" (Continuously Adjustable Resolution) feature

Exposure Time: Variable, independent of sample rate (pps), to 2 microseconds (1 microsecond sec. option)

Trigger: Continuously variable pre/post, rising/falling TTL pulse w/filter, or switch closure

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

Preview and Focusing: Via computer monitor or continuous video out

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

Inputs/Outputs: (via integrated quick-release connector)

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

Range Data Input

RS232

Video out: NTSC, PAL or Serial Digital Video "SDI" (available 3Q04)

Strobe Sync: TTL pulse

Network: 10/100/GigE Ethernet

Power: 24VDC/1.5 Amp

MEMORY

Standard: 1536 Megabytes integral image memory. Records 800 images for .8 second of continuous recording at 1,000pps, full frame.

Optional: Up to 12.2 Gigabyte integral image memory continuously records 6,400 images (6.4 sec.) at 1,000pps full frame.

Optional: Non-Volatile Memory

ENVIRONMENTAL

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

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 ciné. 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. Multi Ciné Viewer.

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 spreadsheet software, and image analysis software such as TrackEye®, Image Express®, or Falcon®.

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

Size: 4.3 x 4.0 x 9.5 inch (HWD)
 (12.5 x 11 x 25 cm) (HWD)

Weight: 7 lbs (3.2kg)

Power: 24VDC/1.5 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, powder coat finish

Country of Origin: The United States of America

STANDARD ACCESSORIES

Phantom® software. Single user license*
 1536 Megabyte integral image memory*

Ethernet. Sync output pulse, trigger, pretrigger video out, and IRIG-B

110/220VAC-28VDC 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, please call us toll free:

1 .800.RESOLUTION

(USA & Canada 1.800.737.6588)

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

www.visionresearch.com

vision
 R E S E A R C H

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. FireWire® and the FireWire Logo are registered trademarks of Apple Computer Inc. Windows™ and the Windows logo are trademarks of Microsoft Corporation.

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