phantomHD
Specifications

Features

"Hot-swappable" Flash magazine
ViewFinder port with component video
SMTPE Time Code
On –camera control
Linear or circular image buffer
Pre-trigger recording
On chip shuttering
Strobe sync
Segmented image memory
Continuous color HD-SDI video output
IRIG-B timing capture with phase shift
10/100/Gigabit Ethernet

Sensor: 1,920 x 1,080 pixel CMOS sensor (24mm x 13.5mm)

Image Bit Depth: 14-bit

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

Allocated formats:

35mm - 1.85:1 - 1920 x 1038

HD - 16:9 - 1920 x 1080

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

Trigger: Continuously variable pre/post

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

Preview and Focusing: Via ViewFinder w/component video, computer monitor or continuous video out

Lens Mounts: PL lens mount, plus a wide variety of lens mounts available

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: NTSC, PAL, and HD-SDI (720p, 1080p, 1080i at 24, 25, 59.9, and 60 fps)

Power: 24VDC/1.5 Amp

MEMORY

Standard: 4 Gigabytes integral image memory records 987 images for 0.9 sec of continuous recording at 1,000pps, full format . Longer recording times for lower sample rates and allocated formats.

Optional: 8 Gigabytes integral image memory continuously records 1,975 images (1.9 sec.) at 1,000pps full frame, and 16 Gigabytes will record 3,950 images for 3.9 sec at full frame.

Optional: Non-Volatile Flash Memory, up to 128 Gigabytes with docking station.

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.

Supported movie formats: Cine, Cine JPEG, Cine Raw, AVI, Multipage TIFF, MXF PAL, MXF, NTSC, and Quick Time

Suppported image formats: Windows BMP, OS/2 BMP, PCX, TGA, TIFF, LEAD, JPEG, JTIF, and Raw

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

Size: 5.5 x 4.9 x 11.6 inch (HWD)
(14.0 x 12.5 x 29.5 cm) (HWD)

Weight: 12 lbs (5.4kg)

Power: 24VDC/1.5 Amp

Mounting: 3/8 - 16 inch main mounting hole and four 1/4 -20 inch threaded mounting hole pattern in base

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*

4 Gigabyte integral image memory

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

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 tool 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

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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PRELIMINARY

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