



PHANTOM[®] HD

PRELIMINARY SPECIFICATIONS subject to change

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VISION RESEARCH

Key Features:

*HD (1920 X 1080) and
2K (2048 X 1536) resolution
under a PL-mount lens
Or, 2048 X 2048 resolution
under an F-mount lens*

*Up to 1000 frames-per-second (fps)
frame rate at HD resolution*

Adjust frame rate in 1 fps increments

*Shutter speeds as fast as two micro-
seconds (1/500,000 second)*

14-bit sensor depth (42-bit color)

35mm depth-of-field

Circular buffer recording

35mm depth-of-field in a high-speed digital HD camera

Your story-telling toolkit just got bigger.

With **2K or HD resolution, frame rates up to 1000 frames-per-second, shutter control to 1/500,000 of a second, and 42-bit color**, you have the tools you need to tell your story in new and dramatic ways.

Regardless of your HD application, you'll appreciate the flexibility and performance of the Phantom HD.

Perhaps the **most exciting feature of the Phantom HD is its 35mm depth- of-field**. You no longer have to compromise the composition of a scene or your story-telling art with the infinite depth-of-field you get from tape-based, small sensor cameras.

At only 9 pounds (4 kg), **the camera is truly portable** and can be easily mounted on booms or sleds. Optional battery power is available. The camera can be **controlled via GB Ethernet or our hand held remote control**.

Since the Phantom HD is capable of creating breathtaking special effects by controlling frame rate and exposure times in fine increments, you can use a single camera for all your shooting needs.



Output 4:2:2 HD-SDI in real time. Or record RAW data onto an optional flash memory module. Our 512GB memory module can **store more than an hour of HD "footage" at 30 fps.**

Images stored in the camera or on the memory module can be downloaded in a variety of popular formats. Not only do you have the Phantom RAW cine format, but also TIFF stacks, uncompressed Quicktime, AVI, and many others.

The CMOS sensor's 14-bit depth provides a dynamic range and color universe that gives you images rivaling film.

Unlike film, you can **immediately see the results of a shot** while you still have a scene set up and talent ready.

The Phantom HD is compatible with digital viewfinders or monitors using an HD-SDI or YPrPb output. We even provide +12Vdc to power a viewfinder.

For commercial production applications, **Phantom HD provides SMPTE Time Coding to ease post production.**

Additional Features:

Extreme Dynamic Range: automatically use shorter exposure times for very bright objects allowing greater dynamic range in the overall image

Component video output to viewfinder

Video out: 4:2:2 HD-SDI (720p, 1080psf, 1080i – all standard formats)

Up to 16GB in-camera memory

Hot-swappable flash memory packs (256GB & 512GB)

SMPTE time code

Hand held user-interface to control camera settings

Weight: 9 lb, 4 Kg

Compatible with 35mm accessories

PL-mount lens compatible

Vision Research is based in Wayne, NJ and has been in the high-speed imaging business for over 50 years working in both film and digital technologies.

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