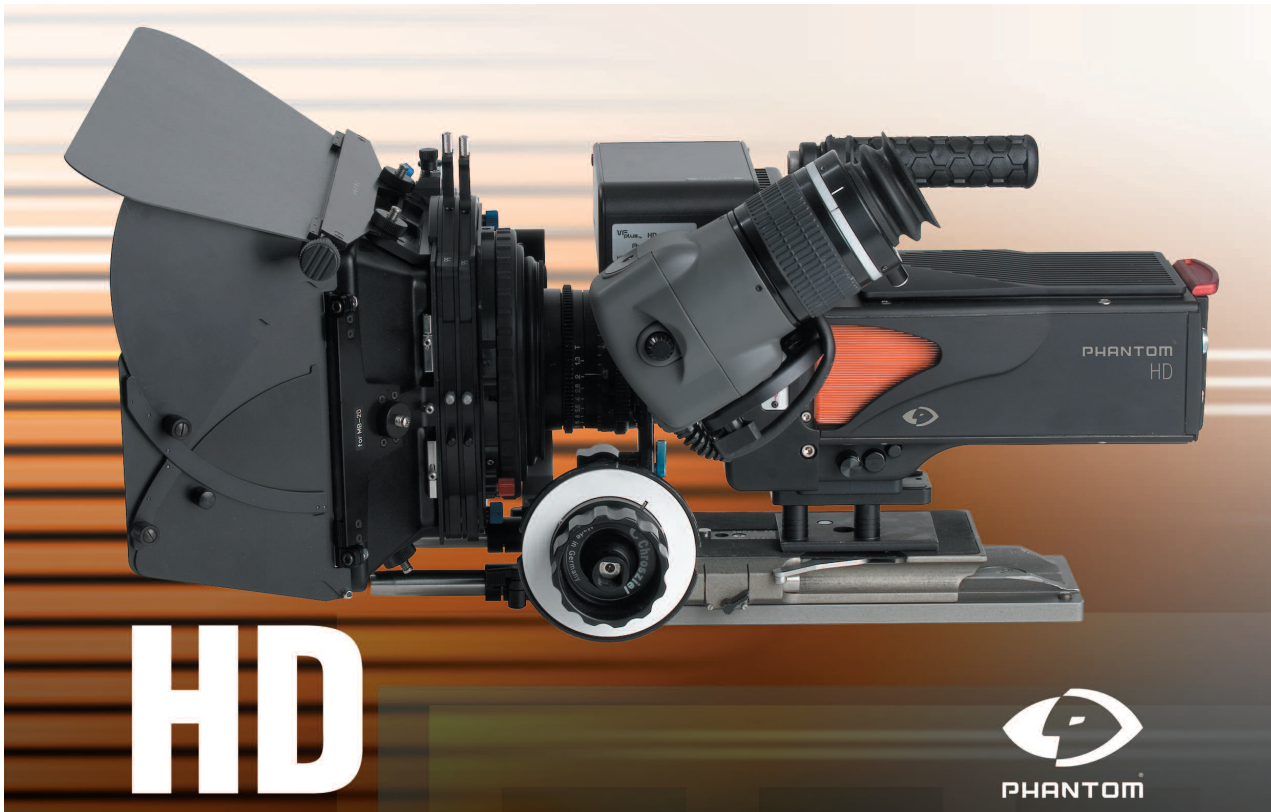


PHANTOM[®] HD

Specifications subject to change

Rev March 30, 2007



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) at 1920x1080 or 1500 fps at 1280x720. Even higher frame rates at decreased resolution.

Adjust frame rate in 1 fps increments

Shutter speeds as fast as two microseconds (1/500,000 second)

14-bit sensor depth (42-bit color), active-pixel CMOS sensor

35mm depth-of-field, 11 stop tonal range

Circular buffer recording

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

Your story-telling toolkit just got bigger.

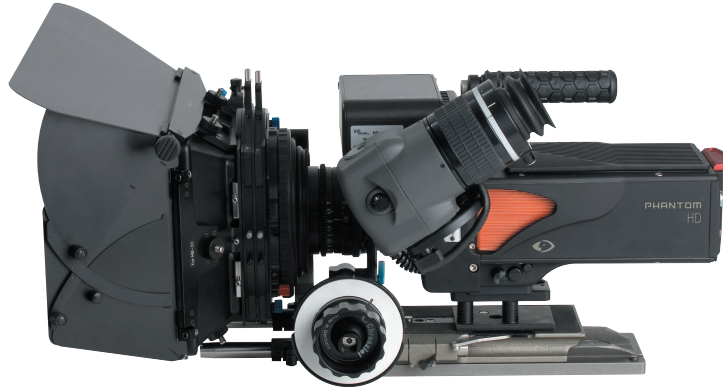
With **2K or HD resolution**, the ability to take thousands of pictures-per-second, shutter control to 1/500,000 of a second, and **42-bit color**, you have the tools you need to tell your story in new and dramatic ways.

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

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 12.1 pounds (5.5 kg), **the camera is truly portable** and can be easily mounted on booms or sleds. Optional battery power is available.

Because 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.



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; and 12VDC is supplied for viewfinder power.

Output HD-SDI 4:2:2 in real time.
Or record RAW data onto an optional Phantom CineMag memory magazine. Our 512GB magazine can **store almost 2 hours of HD "footage" at 30 fps.**

Images stored in the camera or on the Phantom CineMag 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.

Additional Features:

Component video output to viewfinder

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

Up to 32GB in-camera memory

Hot-swappable Phantom CineMag memory magazines (256GB & 512GB)

Weight: 12.1 lb (5.5 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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