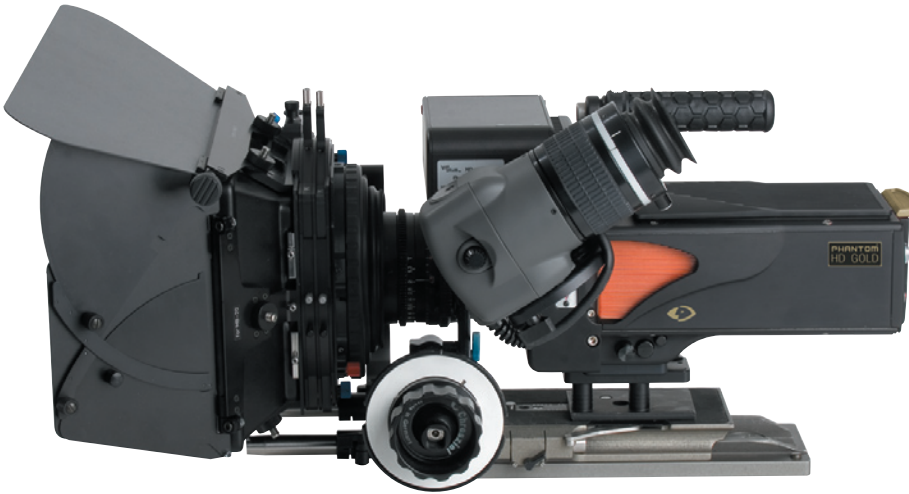


## DATA SHEET

# Phantom HD GOLD

The Gold standard,  
for high-speed, HD Imaging



### Key Benefits:

#### Experience ultimate creative control with the Phantom HD

The Phantom HD Gold is not just a high-speed camera, but an instrument that gives the cinematographer 35mm depth of field at HD or 2K resolutions.

At 2K or HD resolution, the ability to take thousands of pictures-per-second, Shutter speeds as fast as two microseconds, and 42-bit color, you now have all the tools you need to tell your story in new and dramatic ways.

#### Supreme Creative Flexibility

With 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, the camera is truly portable and can be easily mounted on booms or sleds. Optional battery power is available.

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

### Key Features:

HD (1920 x 1080) and 2K (2048 x 1536) resolution under a PL-mount lens & 2048 x 2048 under an F-mount lens

Up to 1000 frames-per-second (fps) at 1920 x 1080 or 1500 fps at 1280 x 720. Even higher frame rates at decreased resolution

Adjust frame rate in 1 fps increments

Shutter speeds as fast as two microseconds (shutter angle from 1-360 degree)

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

35mm depth-of-field 11 stop tonal range

Hot-swappable Phantom CineMag® compatible

On-camera control buttons for complete control

Circular buffer to internal RAM, or run/stop recording to CineMag

# DATA SHEET

## Phantom HD Gold

### The Sense of Time

The Phantom HD Gold combines the visual quality of high-definition imaging with the high frame rates of specialty cameras.

Select any frame rate from 1 to 1,000 fps in increments of one frame-per-second at HD resolution. With the Phantom camera's shutter, variable to 1/500,000 second, and radically adjustable frame rates, you have seamless control of the duration, speed and time of a story element.

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 of your shooting needs.

### Versatility

Depending on the nature of your shoot, employ a raw-data or video workflow direct from the camera. Our Phantom CineMag is the perfect compliment, allowing you to maximize your recording time, or quickly secure high-speed shots without worrying about download time, and without compromising image quality.

The HD can also be configured for "live" broadcast or studio production and has a continuous video output that includes HD (720p, 1080p, 1080i) standards. Multiple triggering and recording modes can also be tailored to your application.



### Additional Features:

Component video output to viewfinder

Video out: 4:2:2 HD-SDI (all standard formats)

Up to 32 GiB in-camera memory

Weight: 12.1 lb (5.5 Kg)

Size: (W x H x D) 13.97 cm x 19.4 cm x 30.8 cm  
(5.47 in x 7.62 in x 12.13in)

Power: 100-240VAC, 150 Watts

Compatible w / 35mm film accessories

Lensing: 35mm PL-mount, Nikon F-mount available

### Focused

Since 1950, Vision Research has been shooting, designing, and manufacturing high-speed cameras. Our single focus is to invent, build, and support the most advanced cameras possible.

**VISION**  
**RESEARCH**

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All specifications are subject to change without notice. Rev January 2010

*AMETEK Vision Research's digital high-speed cameras are subject to the export licensing jurisdiction of the Export Administration Regulations. As a result, the export, transfer, or re-export of these cameras to a country embargoed by the United States is strictly prohibited. Likewise, it is prohibited under the Export Administration Regulations to export, transfer, or re-export AMETEK Vision Research's digital high-speed cameras to certain buyers and/or end users.*

*Customers are also advised that some models of AMETEK Vision Research's digital high-speed cameras may require a license from the U.S. Department of Commerce to be: (1) exported from the United States; (2) transferred to a foreign person in the United States; or (3) re-exported to a third country. Interested parties should contact the U.S. Department of Commerce to determine if an export or a re-export license is required for their specific transaction.*