

## DATA SHEET

# Phantom 65

4K resolution & 65mm  
format is now a digital  
cinema reality



### Key Benefits:

**WHEN IT'S TOO FAST TO SEE, AND TOO IMPORTANT NOT TO®**

### The world's first 65mm digital cinema camera

With Vision Research's unique sensor design and today's powerful digital technologies, the coveted 65mm format is now within every filmmaker's reach.

The Phantom 65 features 10 megapixel resolution, and with frame rates up to 140 frames-per-second and shutter angle from 1 to 360, you now have all the tools you need to tell your story in new and dramatic ways.

### Maximum creative control

Shoot at 20 fps to get faster, sharper action. Try 28 fps to subtly smooth fast action. Or, shoot 140 fps to create slow-motion effects. You have the ability to control frame rates in increments of 1 frame-per-second.

Use the adjustable shutter control to stop fast action for a sharp image, or to create motion blur to soften an image and create a sense of movement. Shutter speed can be adjusted in increments of one microsecond. That's 1 millionth of a second!

### Key Features:

4K (4096 x 2440) resolution, active-pixel CMOS sensor

1 to 140 frames-per-second (fps) at full resolution

Frame rate adjustable in 1 fps increments

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

14-bit sensor depth (42-bit color)

65mm depth-of-field and aspect ratio,  
11-stop tonal range

Hot-swappable Phantom CineMag® compatible

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### Superior image quality & usability

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

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

The Phantom 65 has preset formats for classic 65mm (2.28:1) as well as 2.35:1, 2.21:1 and 1.85:1 aspect ratios. User-selectable aspect ratios can be set in 8 pixel vertical increments.

Images can be stored to RAM or to a removable flash memory pack. Our 512 GiB Phantom CineMag memory magazine can hold about 30 minutes of images at 24 fps. Think of it like a roll of 65mm film, without the costs.

Stored images can then be downloaded from the Phantom CineStation® to a disk array, or directly from the camera using Gigabit Ethernet. Images can be stored in Phantom RAW format, or converted to TIFF stacks, DPX, DNG, Quicktime, AVI and many other popular formats.



### 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 12.13 in)
- Power: 100-240VAC, 150 Watts
- Compatible w/ 35mm film accessories
- Lensing: Mamiya 645 standard;  
Super PL & Hasselblad 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.*