

PHANTOM[®] 65

All specifications subject to change

Rev August 2008

VISION
RESEARCH



Key Features:

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

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

Frame rate adjustable in
1 fps increments

Shutter speeds as fast as six
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 memory magazines
(256GB & 512GB)

Circular buffer recording, and
Run/Stop recording to CineMag

The world's first 65mm digital cinema camera

Only a handful of full-length movies have been shot in the 65mm format, yet they are among the most acclaimed movies ever made: *2001: A Space Odyssey*, *Ben-Hur*, *Lawrence of Arabia*, *The Sound of Music*.

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

Introducing the Phantom 65 from the leader in CMOS sensor design and high-speed digital imaging – Vision Research.

With **10 megapixel resolution, frame rates to 140 frames-per-second, shutter angle from 1 to 360°**, you have the tools you need to tell your story in new and dramatic ways.

Shoot at 20 fps to get faster, sharper action. Try 28 fps to subtly smooth fast action. Or, shoot at 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 is 1 millionth of a second!



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 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.

The Phantom 65 is compatible with digital viewfinders or monitors using a separate HD-SDI output or YPrPb output; and 12VDC is supplied for viewfinder power.

Images can be stored to a removable memory pack. Our 512GB 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 be downloaded from the Phantom CineMag's docking station to a disk array, or directly from the camera using Gigabit Ethernet. Images can be stored in Phantom RAW format, TIFF stacks, DPX, uncompressed QuickTime, AVI, and many others.

Additional Features:

Component video output to viewfinder

Video out: 4:2:2 HD-SDI

Up to 32GB in-camera memory

Weight: 12.1 lb (5.5 Kg)

Compatible with 35mm accessories

Lensing: Mamiya 645 standard; Super PL 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
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