

PRELIMINARY

# DATA SHEET

Subject to Change

## Phantom® CineStream®

New Connectivity Solutions  
for Phantom Cameras

### Key Features:

All CineStream modules plug onto the camera's CineMag interface

#### CineStream X2SR

Control and data download over 10Gb Ethernet

Comes with everything you need including CineStream module, 10Gb Ethernet transceivers, 10m fiber and PCIe card

By replacing the supplied transceivers with other industry standard transceivers, you can achieve greater separation distances:

X2-10GB-SR: 26M over FDDI grade MMF; 300m over 50-micron 2000 MHz\*km MMF

X2-10GB-LR: 10km over SMF

X2-10GB-ER: 40km over SMF

#### CineStream RTO

Stream camera data at up to 800 Mpx/sec over fiber to frame grabber

#### CineStream SAFE

Remote a CineMag on a CineSafe located at up to 100 meters away



Phantom CineStream

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

#### Phantom CineStream

Introducing new connectivity solutions for Phantom digital high-speed cameras. The Phantom CineStream family of products provides new ways to manage the massive amounts of data that today's digital high-speed cameras generate. The CineStream module plugs onto the CineMag® interface of any CineMag capable v-Series or Flex<sup>1</sup> Phantom camera.

#### CineStream® X2SR

The X2SR model of the Phantom CineStream provides 10Gb Ethernet connectivity. With this module mounted onto a Phantom camera, you can control the camera and download cine files over 10Gb Ethernet – at speeds that are up to 7 times faster<sup>2</sup> than the standard 1Gb Ethernet port on the camera. The package comes complete with everything you need: the CineStream module, the X2SR transceiver, 10 meters of fiber, and a PCIe card and associated transceiver for installation in a compatible PC. (The 10m distance can be extended to 26m using FDDI grade multi-mode fiber. For greater distances contact Vision Research for alternatives.)

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## Phantom CineStream

### Phantom CineStream X2SR

Control camera and download cine files over 10Gb Ethernet



### Phantom CineStream RTO

Stream data in real time at 800 Mpx/sec to frame grabber



### Phantom CineStream Safe

Remotely locate a CineMag for safe storage of cine files



### 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 June 2010*

### CineStream® RTO

The RTO model of the Phantom CineStream provides an ultra-fast streaming interface from Phantom cameras. The “real time output” is a fiber interface with an 800 megapixel-per-second bandwidth. It provides 10-bit-per-pixel corrected data in a well-documented format which can be connected to a high-bandwidth frame grabber<sup>3</sup>. The frame grabber can be located up to 100m away from the camera.

### CineStream® SAFE<sup>4</sup>

While not yet available as a shipping product, the Phantom CineStream SAFE module will allow you to record and read from Phantom CineMags that are remotely located. The use-model is identical to having a CineMag mounted on the camera. You can record directly to a CineMag, save high-speed cines from camera RAM to a CineMag, and play back cines stored on a CineMag. However, the CineMag can be remotely located on a Phantom CineSafe – a new product, soon to be available, up to 100 meters away! This is ideal for situations where the camera cannot be easily accessed for removal of the CineMag, or when the camera may be located in a hazardous position and securely storing the image data at a remote location in real-time is required. The Phantom CineSafe™ is simply a device that allows you to “remote” a CineMag at a safe distance from the camera.

<sup>1</sup> Not compatible with the Phantom HD, HD GOLD or Phantom 65

<sup>2</sup> Speeds are heavily dependent upon the performance of the controlling PC and disk storage.

<sup>3</sup> A commercial frame grabber will soon be available, or we will provide you with the interface specifications so you can build your own.

<sup>4</sup> Available early 2011

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.