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DATA SHEET

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Phantom® CineMag IV® and CineStation IV®

Hot-swappable, non-volatile workflow solutions for Phantom High-Speed Cameras

Phantom CineMag IV and CineStation IV

Key Benefits:

Streamline the Phantom Flex4K and UHS-12 high-speed camera workflow

The Phantom CineMag IV is the third-generation CineMag model from Vision Research. While the physical size of the device has decreased, the capacities and throughputs have increased in order to keep up with the size of data, which is ever increasing alongside advances in camera resolution and frame rate.

For example, a 72GB Phantom UHS v2512 records for less than 2 seconds of real time at the camera's top frame rate. That 72GB of data has to be downloaded before moving on to the next shot. The fastest and easiest way to do this is by using a CineMag IV, which will save all of the data in less than a minute.

CineMag IVs are secure, compact, and completely hot-swappable. Once they are full they can be removed from the camera and replaced with an empty one so the shoot remains uninterrupted. A full CineMag IV can now be moved to a Phantom CineStation IV for off-camera download and file management.

The CineStation IV is a simple device that connects to a PC using either 1Gb or ideally 10Gb Ethernet, which comes standard in the CineStation IV. Connect a

Key Features:

Available in two sizes: 1TB and 2TB

Compatible with: Flex4K and all UHS-12 models (v1212, v1612, v2012, v2512)

Recording formats: Cine raw (all cameras), or Apple ProRes 422 HQ (Flex4K only)

Operational modes: Supports Loop-mode and Run/Stop mode for longer record times at lower frame rates

CineStation IV: Download the CineMag IV over Gb Ethernet or 10Gbase-T Ethernet (included)

Access the data in the CineMag from Phantom PCC software, just as you were accessing recordings stored in camera RAM

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CineMag IV mounted in Phantom UHS-12 (left) and Flex4K (right)

CineMag IV and use the supplied software to view each file, set in- and out-points to trim, and save the files to a connected hard drive. The save process can also be fully automated.

The CineMag IV supports Loop mode, taking advantage of the camera's top frame rates, and Run/Stop (R/S) mode for applications that require long record times of up to several minutes at reduced frame rates. In this mode raw image data can be streamed at a throughput of up to 1Gpx/sec directly to the CineMag IV, which is available in sizes up to 2TB. Several minutes of high-speed recording are possible at limited frame rates. Maximum record speed and durations can be found in the chart below.

Run/Stop Record Times at Select Resolutions

(note: max frame rates to 1TB CineMag IV are slightly reduced)

Phantom UHS-12 (v1212, v1612, v2012, v2512)

Resolution	Frame Rate (fps)	2 TB CineMag IV
1280 x 800	1000 max	26 minutes
1280 x 720	1110 max	26 minutes
1280 x 720	300	88 minutes
640 x 480	3330 max	26 minutes

Phantom Flex4K

Resolution	Frame Rate (fps)	2 TB CineMag IV
4096 x 2304	120 max	25 minutes
4096 x 2160	128 max	25 minutes
4096 x 2160	24	134 minutes
2048 x 1080	512 max	25 minutes
2048 x 1080	24	538 minutes

***Note: Max fps indicated for raw recording only.**
ProRes recording in R/S mode is up to 30 fps at full 4K resolution

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Phantom® CineMag IV® and CineStation IV®

CineMag IV Specifications:

Weight: 0.6 lb (0.3 kg)

Size: 3.5 x 4.5 x 0.4 (88 x 113 x 11mm)

Power Consumption: 1.5 amp supplied by camera or CineStation

LED display: Built-in display shows memory remaining, write activity, write protect, status and power

CineStation IV Specifications:

Weight: 1 lb (0.45 kg)

Size: 6.5 x 5.7 x 1.5" (16.5 x 14.6 x 3.8 cm)

Power: 40W power supply included

Inputs: CineMag IV, AC power

Outputs: Gb Ethernet, 10Gbase-T Ethernet (both via RJ45 Copper interface)

Note: SDI video outputs and buttons are not active

CineStation IV (rear)

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.

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AMETEK®
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100 Dey Road
Wayne, NJ 07470 USA
+1.973.696.4500
phantom@visionresearch.com

www.highspeedcameras.com
www.**vision**research.com