

DATA SHEET

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Subject to change Rev January 2017



1TB and 2TB CineMag IV PRO

Key Benefits:

Introducing the CineMag IV PRO.

The CineMag IV PRO was designed specifically for a fast, seamless ProRes workflow with the Phantom Flex4K.

There are several advantages to working with ProRes instead of, or in addition to Cine Raw, including increased record times and simplicity of the workflow straight out of the camera. Sometimes raw files are not required and the footage gets converted to a high quality compressed format, such as ProRes 422 HQ anyway. Selecting ProRes in-camera saves valuable time and money associated with that conversion process, and allows for more footage on each CineMag.

The differences between the CineMag IV and CineMag IV PRO are significant when it comes to working with ProRes and the Phantom Flex4K (see table):

Flex4K setting	CineMag IV	CineMag IV PRO
4K native (4096x2304) Run/Stop mode	Max. 30 fps	Max. 136 fps
2K scaled (4K-> 2048x1152) Run/Stop Mode	Max. 30 fps	Max. 136 fps
2K native (2048x1152 cropped) Run/Stop Mode	N/A	Max. 544 fps
Loop mode Full 64G RAM save	150 seconds	40 seconds
Switching from live to playback to review the saved file	5 second delay	No delay

Phantom® CineMag® IV PRO

High performance hot-swappable media for Phantom Flex4K high-speed cameras

4X faster than the CineMag IV when recording ProRes HQ

Key Specifications:

Compatible with:

Phantom Flex4K and CineStation IV, minimum firmware version 83

Recording formats:

- Phantom Cine Raw at all resolutions
- Apple ProRes 422 HQ at full 4K and 2K resolutions

ProRes

Available sizes: 1TB and 2TB

Note: The same ProRes frame rates and save speed are possible on both the 1TB and 2TB CineMag IV PRO.

Operational modes:

Supports Loop-mode for highest frame rates and Run/Stop mode for longer record times at lower fps.

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Phantom® CineMag® IV PRO

Additional 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)

Focused

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



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Another option is to take advantage of the camera's dual-save mode, where a 4K or scaled 2K ProRes 422 HQ is saved in addition to each 4K raw file. After the CineMag is downloaded, two versions of each shot are ready to go without doing any additional processing.

The CineMag IV PRO 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. Up to an hour of high-speed recording is possible in R/S mode, which results in several hours of playback. Maximum R/S record speed and durations can be found in the chart below.

Run/Stop Record Times to a 2TB CineMag IV PRO

Flex4K setting	Cine RAW	ProRes 422 HQ
4096 x 2304 (4K) at 30 fps	100' (minutes)	247' (minutes)
4K at max R/S fps	120 fps = 25'	136 fps = 54'
2048 x 1152 (2K) at 30 fps	403'	985'
2K at max R/S fps	480 fps = 25'	544 fps = 54'
4K playback at 30 fps	1.5 hours	3 hours
2K playback at 30 fps	13 hours	32 hours

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



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.