

DATA SHEET

Preliminary information. Subject to change
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Phantom® CineMag V

Fast non-volatile recording media for Phantom high-speed cameras



Phantom® CineMag V

Phantom CineMag V recording media is designed to manage large amounts of data, enhancing a high-speed imaging workflow in multiple ways:

- **Efficiency:** At speeds up to 1.4Gpx/sec the CineMag V is the fastest data transfer solution for Phantom cameras.
- **Reliability:** Non-volatile memory protects data during a power loss. A write-protect switch prevents accidental data reformatting.
- **Hot-swappable:** Interchange CineMags as needed to eliminate downtime between shots.
- **Portability:** Eliminates the need to connect a Phantom Camera directly to a computer workstation.

Supported Features include:

- **Loop Mode:** Utilize maximum frame rates by first capturing to RAM.
- **Run/Stop (R/S) Mode:** Bypass RAM for direct recording to the CineMag. Provides long record times at reduced frame rates.
- **Auto-Save:** Images in RAM are immediately uploaded to secure storage when camera is triggered.
- **SDI Playback:** Quickly review CineMag footage on a connected video monitor throughout the day.

Specifications

Available sizes*:

- 2TB (~2500 GB capacity)
- 8TB (~7500 GB capacity)

Compatible with:

- Flex4K, Flex4K-GS
- UHS-12 (v1212, v1612, v2012, v2512)
- UHS-40 (v1840, v2640)
- CineStation IV for download

Throughput:

- CMV-2TB = 900 Mpx/sec
- CMV-8TB = 1.4 Gpx/sec

Technical:

- Recording Format: Cine Raw
- Maximum Cines: 512
- Power: 20W (supplied by camera)

LED Display Indicates:

- Remaining Capacity
- Write activity
- Write protection
- Status and Power

* Capacity indicated is the expected displayed value based on the calculation of GB in Windows OS.

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Additional Specifications

Mechanical:

- Size: 3.5 x 4.5 x 0.4 (88 x 113 x 11mm)
- Weight: 0.6 lb (0.3 kg)

Environmental:

Operating Temperature

Loop mode:

- vXX12, vXX40 models: -10 – 50 C
- Flex4K models: -10 – 50 C

Run/Stop mode:

- vXX12, vXX40 models: -10 – 40 C
- Flex4K models: -10 – 45 C

Maximum direct-record (Run/Stop) frame rates and total available record time at select resolutions:

Resolution	CMV-2TB (~2500 GB Capacity)		CMV-8TB (~7500 GB Capacity)	
	Maximum frame rate in Run/Stop mode (fps)	Record time at max fps (minutes)	Maximum frame rate in Run/Stop mode (fps)	Record time at max fps (minutes)
FLEX4K & FLEX4K-GS				
4096 x 2304	96	37	120	88
4096 x 2160	100	38	128	88
2048 x 1080	400	38	510	89
2048 x 720	600	38	760	89
UHS-12 (v1212, v1612, v2012, v2512)				
1280 x 800	880	37	1360	72
1280 x 720	980	37	1510	72
768 x 768	1536	37	2374	71
640 x 480	2940	37	4550	72
UHS-40 (v1840, v2640)				
2048 x 1920	226	38	350	73
2048 x 1440	300	38	470	72
1920 x 1080	436	37	670	72
1280 x 720	980	37	1510	72

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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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.