

DATA SHEET

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Phantom Miro C320J



Phantom® Miro® C320J and C320 Digital High-Speed Cameras

The Compact & Flexible Solution
for Automotive Crash Test

Key Features:

*2Mpx CMOS Sensor
1,480 fps at 1920 x 1080
Compact, rugged design
HD-SDI Output
Internal battery to protect data
128GB internal CineFlash included*

Key Benefits:

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

- 👁 1,480 fps at full HD (1920 x 1080) resolution
- 👁 Internal battery and 128GB Phantom CineFlash® included
- 👁 Small and rugged
- 👁 Easily Fits into Phantom Automotive Crash Test System

The Phantom Miro C320J and C320 digital high-speed cameras bring **HD resolution** to the Phantom Automotive Crash Test Family. The cameras have the same form factor and functionality as the Miro C210J and C210 to make them easily added to existing systems. An internal battery and internal, non-removable **Phantom CineFlash®** are standard. In the event of AC power loss, the **battery provides backup power** to protect the data as it saves to the CineFlash.



The cameras are available in 2 versions:

C320J for 1 simple connection to Miro J-Box 2.0.

C320 for stand-alone use or connection to Miro J-Box 2.0.



Phantom Miro C320J cameras installed on-board for a crash test

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Phantom® Miro® C320J and C320 Digital High-Speed Cameras

Environmental Specifications:

Size and Weight:

1.2 lb, 0.54 kg

Miro C320J: 2.9 x 3.1 x 3.25 inches

73 x 79 x 82.5 mm (H x W x D)

Miro C320: 2.9 x 2.9 x 3.25 inches

73 x 73 x 82.5 mm (H x W x D)

Hi-G: 170G, IAW MIL-STD 202G,

24Grms, IAW MIL-STD-202G

Operating Temperature:

0° C to 50° C

Power: 16-32 VDC, 13 W Typical

(up to 20W when charging battery)

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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The Miro C320J and C320 are packed with features to make them easy to use;

- HD-SDI connection on the front of the camera allows quick and easy in-position focusing.
- Programmable battery ensures power to protect critical data in catastrophic power loss, with flexibility to accommodate virtually any crash test process.
- 128GB of Flash provides storage for up to 13 full 8GB shots
- Hi-G, tested and proven to withstand 170G shock and 24Grm vibe

| Camera Specifications | | |
|-----------------------|---|--|
| Sensor Resolution | 1920 x 1080 | Special Features: Auto Save to Flash Battery Programming HD-SDI Memory Partitioning Image Based Auto-trigger Continuous Recording IRIG In / Out PIV Mode Straddle Time = 1160ns Quiet Fans |
| Pixel Size | 10 µm | |
| Sensor Size | 19.2 x 10.8mm | |
| Bit Depth | 10-bit | |
| Max fps at Max Res | 1,480 fps | |
| Max fps at Min Res | 94,515 fps | |
| CAR | 640 x 8 | |
| Minimum fps | 100 fps | |
| Minimum Exposure | 1µs | |
| ISO | Mono: 10,000D Color: 2,000D | |
| Adjustable E.I. | Mono: 10,000 - 50,000 Color: 2,000 - 10,000 | |

| Maximum Frame Rates | | | |
|---------------------|-------|------------|--------|
| Resolution | FPS | Resolution | FPS |
| 1920 x 1080 | 1,480 | 1280 x 512 | 3,090 |
| 1920 x 800 | 1,990 | 640 x 480 | 3,295 |
| 1280 x 1024 | 1,770 | 640 x 128 | 11,765 |
| 1280 x 720 | 2,210 | 640 x 8 | 94,515 |

Vision Research Global Support - for wherever you are

Our Miro C-Series High-speed cameras are supported by Vision Research's Global Service and Support network from multiple sites around the globe.

Maximize the value of your Phantom camera by learning more at www.phantomhighspeed.com/Service--Support/

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.