

## DATA SHEET

For the most current version visit [www.phantomhighspeed.com](http://www.phantomhighspeed.com)  
Subject to change Rev February 2020

# Phantom® Miro® N-Series Digital High-Speed Camera

Tiny, Hi-G camera gives  
big Impact

### Environmental Specifications:

#### Miro N5 HEAD:

##### Size and Weight:

0.2lb, 0.09kg  
1.25 x 1.25 x 1.1 inches  
32 x 32 x 28 mm (H x W x D)

##### Power:

16 - 32 VDC, 2.5 W, typical

#### Miro N-JB or N-B Base:

##### Size and Weight:

1.4lb, 0.64kg  
2.9 x 2.1 x 7.3 inches  
75 x 53.5 x 187 mm (H x W x D)

##### Power:

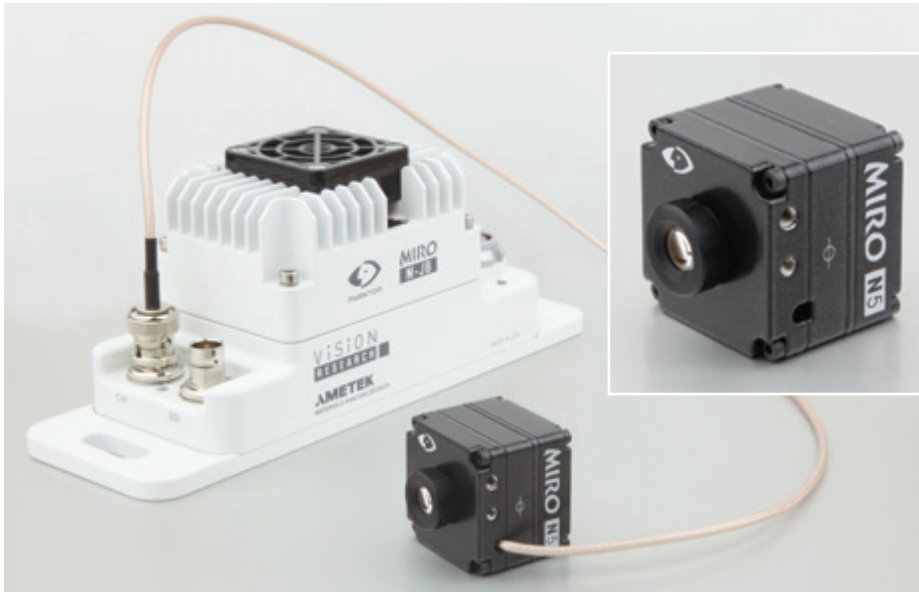
16 - 32 VDC, 10 W typical,  
18W during battery charge.

#### Miro N5 Head & Base:

Hi-G: 150G Shock, IAW MIL-STD 202G  
24 Grms Vibe, IAW MIL-STD 202G




##### Operating Temperature:

0°C to 50°C



### Key Benefits:

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

-  Small camera head fits in hard to reach places
-  Ultimate data protection through the CXP cable
-  Hi-G, for demanding applications

The Phantom Miro N-Series high-speed camera brings maximum flexibility in accessing hard to reach places. The system has **three simple, interchangeable components**.

**Miro N5 Camera head:** A small **cube camera head** measuring just 32mm x 32mm x 28mm, **this tiny camera head can do big things**. The 0.5Mpx sensor achieves over 1,000 fps at 512 x 472. Heads can be purchased separately, a cost-effective solution for destructive applications.

**CXP cable:** All images are transferred instantaneously through the CXP cable. **Every last image is safe** if the head or cable is damaged. The 3 Meter cable is strain relieved, field-replaceable, and provides ample length to position the camera head.

**Miro N Base:** The Base has 8GB of RAM, 128GB internal CineFlash, battery for back-up, and an HD-SDI port. It comes in 2 versions:

JB-Base, for a single cable connection to the Miro J-Box 2.0

B-Base, to use either stand-alone or connected to the J-Box via adapter cable. Both bases have an SDI connector to easily connect to a monitor.

All components are interchangeable for maximum convenience and flexibility.

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## Phantom® Miro® N-Series Digital High-Speed Camera



### Vision Research Global Support - for wherever you are

Our Miro Digital High-speed cameras are supported by Vision Research's Global Support network from multiple sites around the globe. Maximize the value of your Phantom camera by learning more at [www.phantomhighspeed.com/Support/](http://www.phantomhighspeed.com/Support/)

### 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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Camera Specifications		
Sensor Resolution	768 x 600	Special Features:  Auto Save to Flash Battery Programming HD-SDI Extreme Dynamic Range (EDR) Strobe Memory Partitioning Image based Auto-trigger Continuous Recording IRIG In / Out Quiet Fans
Pixel Size	4.8 µm	
Sensor Size	3.6 x 2.8mm	
Bit Depth	10-bit	
Max fps at Max Res	560 fps	
Max fps at Min Res	9,055 fps	
CAR	128 x 32	
Minimum fps	30 fps	
Minimum Exposure	30 µs	
ISO	Mono: 2,000D Color: 400D	
Adjustable E.I.	Mono: 2,000 - 10,000 Color: 400 - 2,000	

Resolution	Maximum fps
768 x 600	560
640 x 480	815
512 x 512	930
256 x 256	2325
256 x 128	3570
128 x 64	4870
128 x 32	9055

### Resolutions Providing 1000 fps

Resolution	Maximum fps
480 x 480	1040
512 x 450	1045
512 x 472	1000



2 versions: Junction Box-ready N-JB Base and stand-alone Miro N-B Base

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.