

## DATA SHEET

For the most current version visit [www.visionresearch.com](http://www.visionresearch.com)  
Subject to change Rev Mar 2012

# Phantom® Miro® 3

Compact

Rugged

Hi-G



Miro 3

### Key Benefits:

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

Rated to survive 100g acceleration, this rugged camera can take 800 x 600 pixel images at up to 1,200 frames-per-second (or 2,200 fps at 512 x 512). Reduce the resolution to 32 x 16 and achieve frame rates greater than 111,100 fps. With an ISO rating of 4800 (monochrome, saturation-based ISO12232), the camera has the light sensitivity for the most demanding applications.

With shutter speeds as low as 2 microseconds, the user can freeze objects in motion, eliminate blur, and bring out the image detail needed for successful motion analysis.

As with all Phantom cameras, the Miro 3 provides a number of advanced features that help you get the high-speed shots you need for your application.

### Key Features:

Great for crash test or other harsh environments

800 x 600 at 1,200 fps

Minimum exposure time (shutter speed) as low as 2 microseconds (1/500,000 second)

CAR (Continuous Adjustable Resolution) in 32 x 8 pixel increments

Electronic Global Shutter

Non-volatile memory -Internal Flash, 2GB standard: 4GB and 8GB optional

ISO (ISO-12232 standard): 4800 Mono, 1200 Color

10/100BASE-T Ethernet

# DATA SHEET

## Phantom® Miro® 3

### Additional Features:

Analog video out: PAL & NTSC

SVGA Computer Monitor, Continuous Video Out

Lensing: Inter-changeable C-mount standard

Size (without lens): 11 x 6.5 x 8 cm (W x D x H)  
4.3 x 2.56 x 3.15 in

Weight (without lens): 2 lbs (0.9 kg)

External Power: 15-30 VDC, 12W

DC Power/Battery - Internal Li-polymer, 11.1V

Triggering - fully adjustable within recordable frames  
software or hardware trigger (TTL)

### 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.



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

[www.visionresearch.com](http://www.visionresearch.com)

The Miro 3 offers flexible triggering options allowing the user to trigger the camera anywhere in the recording buffer. Synchronization to other cameras or to an external trigger or time base (such as IRIG) is standard. Segment the built-in memory into up to 4 segments to take multiple shots back-to-back.

The camera can even be set up to automatically store cines to non-volatile memory for safe storage in case of loss of power (a real risk in harsh environments.) But, even a temporary loss of power is not a problem for the Miro 3 because it can run off an internal battery for up to 30 minutes giving you time to retrieve any critical data.

H	V	FPS
800	600	1,200
640	480	1,949
512	512	2,252
320	240	7,155
256	256	8,146
128	128	25,477
128	64	43,010
32	32	95,238
32	16	111,111

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.