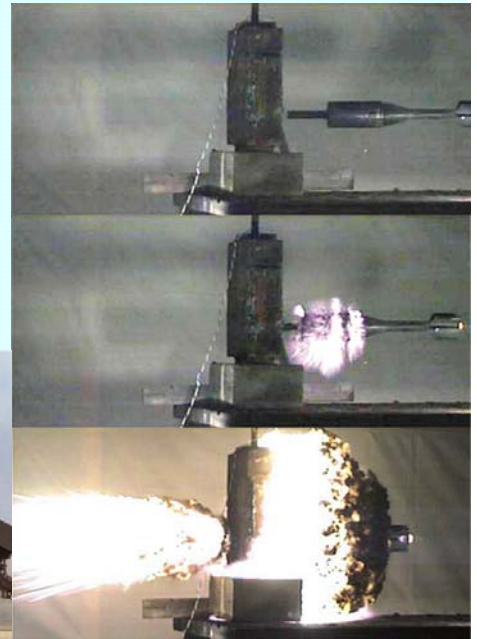


The most experienced name in High Speed Camera Systems...



*Introduces the  
Memrecam HX-1*

*A ground-breaking advance  
in high speed imaging!*



**Memrecam HX-1 Features**

- Super High Resolution
- Ultra-High Frame Rates
- Extra Long Recording Times
- Ultra-High Light Sensitivity
- Ruggedized for Range Use

**Applications We Service**

- Explosives and Pyrotechnics
- Ballistics
- Missile Launch
- Projectile Tracking
- Component Tracking
- Materials Testing
- Fluid and Flow Visualization



*The all new NAC Memrecam HX-1 offers an astounding 5 Mega Pixel resolution at 2000 fps. It has the highest resolution, the highest speed, and the longest recording times of any high speed camera ever built.*

NAC Image Technology has a proven record of developing reliable, high performance products that satisfy high-speed imaging requirements for a multitude of specific applications. With its worldwide impact, no one has played a more important role in the imaging industry than NAC.

When it comes to reliable, high-quality, high-speed camera systems, make the safe choice with NAC and you'll **see the visible difference!**

Providing quality and reliability since 1958

Visit us on the web at [www.nacinc.com](http://www.nacinc.com)



*The visible difference*

# The Memrecam HX-1 High Speed Camera System...

## Preliminary Product Description

### Most Powerful Sensor Available

**CMOS Sensor:** 2560 X 1920 pixel resolution  
**Max Speed at Full Resolution:** 2000 fps  
**Bit Depth:** 12/10/8-bit (customer selectable)  
**Electronic Shutter:** OPEN to 1  $\mu$ sec

### Highest Speed at Highest Resolution

2560 X 1920	2,000 fps
1920 X 1080	4,000 fps
1280 X 1024	7,000 fps
1280 X 720	10,000 fps
768 X 576	20,000 fps
512 X 384	40,000 fps
384 X 208	100,000 fps

Note: Customer adjustable frame rate/  
resolution settings up to a  
Maximum 1,300,000 fps

### Most Storage Options Available

**Memory Storage:** 16GB/32GB/64GB DRAM  
**USB 2.0:** Fast download, Non-volatile HDD

## Introducing the NAC HD-Mag:

A high density, non-volatile, memory magazine

**Record directly to the HD-Mag for  
more than 16 minutes:**

**XGA: 1024 X 768 @ 1000 fps**  
**1080p: 1920 X 1080 @ 500 fps**

### More Unique Features

**Shielded Heat Exchanger:** Heat dissipation achieved using sealed camera core.

**Variable Framing Profile:** Employ a variety of frame rates on a test, sequentially or in parallel.

**Versatile Recording Functions:** Burst, multi-trigger, restart-trigger and image-trigger.

**A-EST Mode:** High resolution timing and sync system to less than 15 nanoseconds.

**Straddle Mode:** Adjustable inter-frame time to less than 1  $\mu$ sec for PIV applications.

**Ultra-Fast Communications:** Ultra-fast Gig-E communications and data download.

**Ultra-High Light Sensitivity:** Testing is underway. Specification subject to verification using ISO 12232.

### Other Standard Memrecam Features

- **Auto Exposure Control**
- **Adjustable Frame Rates**
- **Automatic Temperature Calibration**
- **Selectable Bit Density**
- **Continuously Adjustable Resolution**
- **Gigabit Ethernet Interface**
- **Continuous Live Video Output**
- **Remote & Local Control (no PC required)**
- **Dynamic Range Expansion Shutter**
- **Multiple Trigger Modes**
- **Memory Segmentation**
- **External Sync Recording**
- **IRIG-B Timing Capture & Sync with Phase Shift**
- **Built-in Memory Backup**
- **Compact, Rugged Design (<8kg)**

Please Note: Specifications described above are preliminary and subject to change.



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