

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



**The Memrecam HX-3**  
*a technological advance  
that is the most versatile  
high speed imaging tool  
available anywhere in the  
world today!*

**Memrecam HX-3 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



**NAC's all new Memrecam HX-3 offers an astounding 5 Mega Pixel resolution at 2000 fps, and onboard memory up to 64GB! ...The highest speeds, highest resolutions and highest light sensitivity all in a compact package!**

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-3 High Speed Camera System...

Recording Duration (Seconds)				
Frame Rate (fps)	Pixel Resolution	16GB DRAM	32GB DRAM	64GB DRAM
250	2560 X 1920	13.67	27.34	54.69
500	2560 X 1920	6.84	13.67	27.34
1,000	2560 X 1920	3.42	6.94	13.67
2,000	2560 X 1920	1.71	3.42	6.84
3,000	2048 X 1600	1.71	3.42	6.84
4,000	1920 X 1080	2.03	4.05	8.10
6,000	1408 X 1056	1.88	3.77	7.53
7,000	1280 X 1024	1.83	3.61	7.32
10,000	1280 X 720	1.82	3.65	7.29
20,000	768 X 592	1.85	3.70	7.39
40,000	512 X 432	1.90	3.80	7.60
50,000	512 X 336	1.95	3.91	7.81
75,000	384 X 288	2.03	4.05	8.10
100,000	384 X 208	2.10	4.21	8.41
200,000	384 X 96	2.28	4.56	9.11
1,300,000	384 X 8	4.20	8.50	17.10

## Specifications

**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 µsec  
**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 µsec for PIV applications.  
**Video Output:** NTSC, PAL or DisplayPort/HDMI.  
**Ultra-High Light Sensitivity:** Specification subject to verification using ISO 12232.

## Features

- **Auto Exposure Control**
- **Adjustable Frame Rates**
- **Automatic Temperature Calibration**
- **Continuously Adjustable Resolution**
- **Ultra-Fast Gigabit Ethernet Interface**
- **Fast Download to USB 2.0 HDD**
- **Continuous Live Video Output**
- **Remote & Local Control (no PC required)**
- **Dynamic Range Expansion Shutter**
- **Multiple Trigger Modes**
- **Memory Segmentation**
- **External Sync Recording**
- **IRIG-B Capture & Sync w/ Phase Shift**
- **Compact, Rugged Design**  
*110W x 140H x 333D(mm), 5.5kg (12.13 lbs)*



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