

# MEMRECAM HX-4

## High Speed Camera System

The MEMRECAM HX series:  
the world's most versatile family of  
high speed camera systems!

### MEMRECAM HX-4 FEATURES

CMOS Sensor: 1280 X 960 —  
all Active Pixels

Bit Depth: 12/10/8-bit  
(customer selectable)

Electronic Shutter:  
OPEN to 300 ns

Variable Framing Profile:  
Test using a variety of frame  
rates, sequentially or in parallel.

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

A-EST Mode: High resolution  
timing and sync system to  
< 62 nanoseconds.

Straddle Mode:  
Inter-frame time for  
PIV applications equals  
154 nanoseconds.

Dual Segment Recording:  
Simultaneously record to two  
distinct memory segments at two  
different imaging speeds.

Ultra-High Light Sensitivity

Ruggedized for Range Use



nac's MEMRECAM HX-4 offers a 1.3 Mega Pixel sensor and the most light sensitive image available anywhere in the world. The Memrecam HX-4 supports wide screen viewing of critical high-speed imaging events, keeping the subject in frame longer. The HX-4 records brilliant color images or crisp monochrome images at full 1.3 Mega Pixel resolution up to 6,250 fps, 1 Mega Pixel resolution up to 7,500 fps and 720p HD resolution up to 8,300 fps.

The HX-4 is literally two cameras in one!

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

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MEMRECAM HX-4 High Speed Mode		
Max Res (pixels)	1280 X 960	
Optical Format	35.20 mm	
fps Max Res	6,250 fps	
Gpix/ sec @ Max Res	7.68	
	Mono	Color
ISO Rating	40,000	8,000
Memory Options	16GB, 32GB, 64GB	
Max fps	1,080,000	

Imaging Formats	Max fps @ Format
1 Mega Pixel	7,490
1280 X 720	8,310
XGA (1024 X 768)	9,560
768 X 576	16,400
VGA (640 X 480)	22,920
512 X 512	26,230
QVGA (320 X 240)	78,690
320 X 192	97,010
320 X 128	140,690
320 X 96	181,560
320 X 64	255,900
320 X 32	433,330
320 X 16	663,260
320 X 8	1,080,000

\* Note: Recording Time Depends on Memory Configuration, Resolution, Frame Rate and Image Bit Depth.  
 Recording Time (seconds) = [(Memory Configuration X 1024 X 1,000,000) / (Resolution/Frame)] / (Frames/Second)  
 Resolution/Frame (Bytes) = (Horizontal pixels X Vertical Pixels X Bit Depth/8)

nac Image Technology  
 Memrecam High Speed Camera Systems also Feature:

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



Visit our website at  
[www.nacinc.com](http://www.nacinc.com)

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



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