



the most experienced  
name in high speed  
cameras

# MEMRECAM HX-3e

High Speed Camera System

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

## MEMRECAM HX-3e FEATURES

CMOS Sensor: 2560 X 1920—  
all Active Pixels

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

Electronic Shutter:  
OPEN to 1.1  $\mu$ s

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  
< 50 nanoseconds.

Straddle Mode:  
Inter-frame time for  
PIV applications equals  
125 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-3e offers an astounding 5 mega Pixel resolution at up to 2,000 fps, Full HD resolution at up to 4,670 fps, 1 Mega Pixel resolution at up to 9,220 fps, and so much more! The HX-3e gives the user the best possible solutions: the highest resolutions available; the highest light sensitivity available; and ultra fast imaging.

The HX-3e 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!*

# MEMRECAM HX-3e

## High Speed Camera System



MEMRECAM HX-3e High Resolution Mode		
Max Res (pixels)	2560 X 1920	
Optical Format	35.20 mm	
fps @ Max Res	2,000	
	Mono	Color
ISO Rating	10,000	2,000

MEMRECAM HX-3e High Speed Mode		
Max Res (pixels)	1280 X 960	
Optical Format	35.20 mm	
fps @ Max Res	7,690	
	Mono	Color
ISO Rating	40,000	8,000

Memory Option	16GB, 32GB, 64GB	
Maximum fps	220,000	

Imaging Formats	Max fps @ Format
High Def: 16 X 9	
1920 X 1080	4,670
1280 X 720	10,230
Other Formats	
4 Mega Pixel	2,400
2 Mega Pixel	4,740
1 Mega Pixel	9,220
XGA (1024 X 768)	11,770
768 X 576	20,180
VGA (640 X 480)	28,210
512 X 512	32,280
512 X 384	42,780
320 X 320	73,660
320 X 240	96,850
320 X 192	119,400
320 X 96	220,000

\* 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)

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

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



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