

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

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



Contact Us in the Americas:
 nac Image Technology
 193 Jefferson Ave, Suite 102
 Salem, MA 01970 U.S.A.
 Tel: (833) 600-0280
 E-mail: sales@nacinc.com

Contact Us in Europe:
 MESSRING GmbH
 Friedrichshafener Straße 4c
 82205 Gilching, Germany
 Tel: +49 8153 407 96 333
 E-mail: sales@messring.de

Contact Us in Asia:
 nac Image Technology Inc.
 2-11-3 Kita-Aoyama, Minato-ku
 Tokyo 107-0061 Japan
 Tel: +81 3 3796 7903
 Email: nacinternational@camnac.co.jp