Image Technology

the most experienced name in high speed cameras

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 <1µsec

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 boasts 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!

Providing quality and reliability since 1958

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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	10,000
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)	9,570
768 X 576	16,440
VGA (640 X 480)	23,000
512 X 512	26,330
QVGA (320 X 240)	85,970
320 X 192	106,190
320 X 128	154,740
320 X 96	200,590
320 X 64	285,050
320 X 32	492,370
320 X 16	773,730

* 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.

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