



the most experienced
name in high speed
cameras

MEMRECAM HX-1

High Speed Camera System

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

Memrecam HX-1 FEATURES

CMOS Sensor: 2560 X 1920—
all Active Pixels

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

Electronic Shutter:
OPEN to $<1\mu\text{sec}$

HD-Mag Option for Storage:
High Density, non-volatile,
memory magazine.

HD-Mag Option for Recording:
Record directly from the HX1 for
more than 26 minutes in full HD
(1080p) resolution at 250fps.

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-1 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-1 gives the user the best possible solutions: the highest resolutions available; the highest light sensitivity available; and ultra fast imaging.

The HX-1 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 HX1 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	2,500

Memrecam HX1 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	10,000

Memory Option	16GB, 32GB, 64GB, 128GB	
Maximum fps	1,300,000	

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)	11,780
768 X 576	20,230
VGA (640 X 480)	28,310
512 X 512	32,410
512 X 384	43,000
320 X 320	74,340
320 X 240	105,800
320 X 192	130,700
320 X 96	246,880
320 X 48	444,400
320 X 24	740,660

* 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 - 9kg
206W x 291H x 319D(mm)



Visit our website at
www.nacinc.com

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



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