

MEMRECAM GX- 8

High Speed Camera System

The Memrecam GX series:
The workhorse family of ruggedized 1.3
Mega Pixel high speed camera systems.

Memrecam GX-8 FEATURES

CMOS Sensor: 1280 X 1024 —
all Active Pixels

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

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

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
 < 14 nanoseconds.

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

Multi-Camera Download: Down-
load images from up to seven
cameras simultaneously in same
time it takes to download a single
camera.

Ultra-High Light Sensitivity

Ruggedized for Range Use: Sealed
camera core , uses no fans.



NAC's Memrecam GX-8 boasts a 1.3 Mega Pixel sensor and the most light sensitive images in its class. The Memrecam GX-8 supports wide screen viewing of critical high-speed imaging events, keeping the subject in frame longer. The Memrecam GX-8 records brilliant color images or crisp monochrome images at full 1.3 Mega Pixel resolution at more than 2,900 fps, 1 Mega Pixel resolution at more than 3,590 fps and 720p HD resolution at more than 3,900 fps.

The Robust GX-8 is perfect for a variety of applications, including: Ballistics, Combustion, Materials Research, Machine Design, Microscopy, PIV, Flow Visualization, Spray Analysis, Automotive Testing, and many, many more...

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 GX-8 Full Screen Mode		
Max Res (pixels)	1280 X 1024	
Optical Format	35.57 mm	
fps @ Max Res	2,916	
Gpix/ sec @ Max Res	3.82	
	Mono	Color
ISO Rating	20,000	5,000
Memory Options	4GB, 8GB	
Max fps	600,000	

Imaging Formats	Max fps @ Format
1 Mega Pixel	3,593
1280 X 720	3,917
XGA (1024 X 768)	4,628
768 X 768	6,132
768 X 576	7,714
VGA (640 X 480)	10,566
512 X 512	12,485
512 X 384	15,354
QVGA (320 X 240)	32,110
256 X 192	44,332
128 X 96	125,900
64 X 64	208,333
64 X 32	312,500

* 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 - 4kg
110W x 100H x 240D(mm)



Visit our website at
www.nacinc.com

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



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