

MEMRECAM GX Family

High Speed Camera System

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

Memrecam GX Family 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.

Straddle Mode:
Inter-frame time for
PIV applications (available only
with Memrecam GX8).

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.



GX Family Voted Best in Class

The Memrecam GX Family provides performance where it counts.

- Highest resolution
- Highest light sensitivity
- Most flexible imaging formats
- Small rugged housing with sealed camera core
- Best dynamic range performance
- Fastest shutter speeds

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 GX Family Comparison

High Speed Camera System



Product Features	NAC Memrecam GX3	NAC Memrecam GX1	NAC Memrecam GX8
Max Res (Pixels)	1280 X 1024	1280 X 1024	1280 x 1024
Optical Format	35.57 mm	35.57 mm	35.57 mm
fps @ Max Res	1,679	2,078	2,916
Gpix /sec @ Max Res	2.20	2.72	3.82
ISO Rating - Mono	20,000	20,000	20,000
ISO Rating - Color	5,000	5,000	5,000
Fastest Shutter Speed	1.00 μ sec	1.00 μ sec	0.50 μ sec
Bit Depth	8/10/12-bit	8/10/12-bit	8/10/12-bit
Memory Options	2GB,4GB, 8GB	2GB, 4GB, 8GB	4GB, 8GB
Max fps	198,000	232,000	614,000
Resolution @ Max fps	4 x 16	8 x 16	16 x 4
Dimensions (mm)	100W x 110H x 260D	100W x 100H x 230D	102W x 151H x 195D
Weight	<4.0 kg	4.0 kg	3.9 kg

Imaging Formats / Frame Rates (fps)	NAC Memrecam GX3	NAC Memrecam GX1	NAC Memrecam GX8
1 Mega Pixel	2,068	2,559	3,593
1280 x 720	2,254	2,789	3,917
XGA (1024 x 768)	2,661	3,293	4,628
768 x 768	3,522	4,359	6,132
768 x 576	4,425	5,477	7,714
VGA (640 x 480)	6,048	7,485	10,566
512 x 512	7,135	8,831	12,485
512 x 384	8,756	10,837	15,354
QVGA (320 x 240)	18,076	22,371	32,110
256 x 192	24,725	30,600	44,332
128 x 96	56,110	69,444	125,900
64 x 64	94,835	117,371	208,333
64 x 32	104,124	128,866	312,500



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