



**It's Here... The Memrecam GX-5
Multi-Micro Camera Head Digital
High-Speed Video System**



Finally, the Micro Camera from NAC achieves 1000fps! NAC's Memrecam GX-5 will set new standards for high-speed imaging flexibility and performance in onboard automotive testing. These cameras provide the ideal solution for image capture in confined spaces such as foot wells, engine compartments and a vehicle's undercarriage.

System Features:

- **Multi-Camera, Micro Heads** – NAC enhances the capabilities of its unique Micro Camera Head Design, connecting up to eight (8) cameras directly to a single onboard processor.
- **High Resolution** – Record brilliant color images with 640 x 480 pixel resolution (VGA) at up to 1000fps. (higher frame rates at reduced resolution).
- **Hi-G** – Ruggedized for onboard Hi-G applications, 100G's shock, 11ms.
- **Ultra-High Light Sensitivity** – The GX-5 Micro Camera is designed to take images in confined, poorly lit spaces, providing more than 2X the light sensitivity of any product of its kind available on the market today.

Applications Serviced by NAC Image Technology Camera Systems

- Vehicle Impact Testing
- Onboard Airbag Deployment Testing
- Safety Restraints Testing
- Automotive Component Testing
- Automotive Research and Design

The Memrecam GX-5 Micro Camera Head

- Hi-G Camera Head 25 x 25 x 95 mm (about 350 g), 100G, 11ms
- Straight, Angle Side Head Types, NF Lens Mount (see Figure 1)
- Maximum camera cable length up to 9m (5m standard)
- Up to 8 heads directly connected to a single Digital Recording Processor (DRP)
- Latest CMOS sensor technology, 640 x 480 pixel resolution at up to 1000fps
- Maximum Frame Speed 100,000fps (32 x 24 pixels)
- Minimum Shutter Speed 1/200,000 seconds
- Custom Recording Speed (1fps step)
- High Sensitivity: Color ISO1000, Monochrome ISO4000



Figure 1 - GX-5 Micro Head Orientation Options

The Memrecam GX-5 Multi-Camera Head System

- Compact, Ruggedized, Tethered Head Type System
 - Digital Recording Processor (DRP)
 - Up to Eight (8) Micro Camera Heads to one DRP
 - All cameras views fully synchronized
- Memory 2GB, 4GB or 8GB
 - Plenty of recording time at 640 x 480 pixel resolution at 1000fps (see Figure 3)
 - Memory Segmentation Feature
 - 8/10 bits Recording
- Fully Integrated Memrecam GX System Features
 - Switching Video Output of Every Head Image
 - Split Screen Video Output of Multiple Heads
 - Common Settings of Frame Rate/Size, Bit Depth and Trigger Mode
 - Individual Setting of Shutter Speed
 - Other Features are same with the GX-1 (Gig-E, sync, etc.)



Memrecam GX-5 Recording Time						
	4-Camera System			8-Camera System		
	2GB	4GB	8GB	2GB	4GB	8GB
1000fps						
640 x 480 pixels (8bit)	1.7s	3.4s	6.9s	0.8s	1.7s	3.4s
512 x 384 pixels (8bit)	2.6s	5.4s	10.8s	1.3s	2.7s	5.4s
500fps						
640 x 480 pixels (8bit)	3.4s	6.9s	13.9s	1.7s	3.4s	6.9s
512 x 384 pixels (8bit)	5.3s	10.8s	21.7s	2.6s	5.4s	10.8s

Figure 2 – GX-5 Recording Time

NAC Image Technology is a proud supplier of high-speed camera systems to the world’s largest automotive manufacturers and Tier 1 suppliers. Join your colleagues in making the safe choice for reliable, high quality high-speed camera systems. Choose NAC and you’ll see ***The Visible Difference.***



Contact Us in the Americas:
NAC Image Technology
 15 McCoy Place
 Simi Valley, CA 93065
 Tel: (800) 969-2711
 E-mail: sales@nacinc.com

Contact Us in Europe:
NAC Deutschland GmbH
 Hedelfingerstr. 54-70
 70327 Stuttgart, Germany
 Tel: +49(0)711 2201 885
 E-mail: sales@nacinc.com

Visit our website at www.nacinc.com