

The most experienced name in...

## High-Speed Camera Systems for Aerospace Applications

### Product Features

- Extra Long Recording Times
- High Resolution
- Ultra-High Light Sensitivity
- Ultra-High Frame Rates
- Hi-G / Ruggedized
- Multi-Head Cameras
- Remote Operation

### Applications We Service

- Projectile Tracking
- Missile Launch
- Combustion Testing
- Vehicle Testing
- Engine Testing
- Component Testing
- Materials Testing
- Flow Visualization



NAC Image Technology has a proven track record of developing high quality, reliable products that satisfy specific high-speed imaging requirements for Aerospace applications. NAC Image Technology is the only manufacturer of high-speed camera systems that has dedicated itself to producing complete, integrated systems that have *the most light sensitivity, the best image quality, the largest memory capacities, the smallest camera heads, the fastest download times and the most inclusive software packages in the industry.* When it comes to reliable, high-quality, high-speed camera systems, make the safe choice with NAC and you'll *see the visible difference.*

Providing quality and reliability since 1958

Visit us on the web at [www.nacinc.com](http://www.nacinc.com)

**nac**  
Image Technology

*The visible difference.*

# The NAC Family of Products for the Aerospace Industry

NAC Image Technology high-speed imaging products are range tested and perform extremely well in rugged environments. ALL NAC products...

- Can record uncompressed digital high-speed imagery for more than one minute
- Use real-time IRIG insertion—the integral IRIG synchronization system makes IRIG a permanent component of the digital image
- Can be operated as standalone systems (no PC required!)
- Offer real-time NTSC, S-Video and VGA output
- Can be operated as part of a multi-camera environment
- Can be operated locally or remotely (from up to 20km)



## Memrecam GX-1

The first member of the new GX family, the Memrecam GX-1 is a rugged, ultra light sensitive mega pixel camera developed for demanding testing environments. This Hi-G, high resolution (1280 X 1024 with selectable frame size) camera features live NTSC/PAL video output and provides a bit density of 8bit / 10bit /12bit as a standard feature. The GX-1 can be synchronized to IRIG-B, an external source or an internal clock.



## Memrecam fx-K4

The Memrecam fx-K4 is the only high-speed camera on the market today that combines ultra high light sensitivity, ultra high framing rates and mega pixel resolution! The K4 resolves 1280 X 1024 pixels at 1,000 fps with unparalleled light sensitivity of ISO2400 (color) and ISO10,000 (monochrome). The fully self contained, digital Memrecam fx K4 records brilliant color or crisp monochrome images at frame rates of up to 168,000 fps. Available with up to 16 Gigabytes of internal RAM, the Memrecam fx K4 is the only system in the world which allows the user to record mega pixel images for more than 10 seconds at 1,000 fps. **\*Optional Gigabit Ethernet Interface**



## HotShot 512 sc

The HotShot 512 sc is NAC's most versatile digital system offering a perfect synthesis of light sensitivity, fast capture rates, and longest digital record times to system RAM. The 512 sc features a 2/3" 512 X 512 Generation 3 CMOS sensor array that allows images to be captured at full resolution at an unbelievable 5,000 fps. The 16-micron pixel size of sensor gives it outstanding light sensitivity (1650 ASA), which until now, could only be achieved by multi sensor cameras. The 512 sc is available with up to 16 Gigabytes of internal memory that provides over 1 minute of record time at 1,000 fps and over 4 minutes at 250 fps.



## Memrecam fx-RX5

The Memrecam fx-RX5 is a flexible, lightweight, high-speed, Hi-G mega pixel camera system. This fully self-contained, tethered head system can be operated locally without a control PC or can be controlled remotely. The RX5 uses a state-of-the-art CMOS sensor that records images at 1,000 fps at 1280 X 1024 pixel resolution (with optional speed up to 10,000 fps) in its single camera head configuration. The system can be configured with up to four fx-RX camera heads or up to four Micro camera heads.



## Memrecam fx-K3R

The Memrecam fx-K3R is a flexible, lightweight, high-speed, high definition mega pixel camera system. This fully self-contained system can be operated locally without a control PC or can be controlled remotely. The K3R utilizes a state-of-the-art CMOS sensor that records images at 1,000 fps at 1280 X 1024 pixel resolution (with optional speeds up to 10,000 fps).



## HSV-500C3

The HSV-500C3 is a compact, lightweight, high-speed videotape camera system that records up to 43 minutes of high fidelity color images on inexpensive S-VHS or VHS tape in standard NTSC format. The HSV-500C3 features a 3 x 1/3" 510 X 485 CCD image sensor array with incredible light sensitivity, which results in extremely crisp, brilliant color images in environments with low lighting conditions. The system's very small camera head can be separated from the system's compact VCR by up to 200m, thereby allowing the captured data to be better protected from catastrophic events that may occur from time to time in hazardous environments. Images can be stored and protected immediately upon image capture. The system is extremely easy to use and operates much like a standard VCR. An optional IEEE 1394 interface is available that brings the image data into PC file formats for viewing and distribution.

Visit us on the web at [www.nacinc.com](http://www.nacinc.com)

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