NAC's Memrecam *GX-ir* … extending the range beyond the visible light spectrum!

The most experienced name in high-speed video introduces the new Memrecam GX-ir … developed especially for those applications that require an extended spectral response!

NAC continues to expand its Memrecam GX product family with the addition of the new **GX-*ir*** cameras which provide ***extended spectral response*—**previously unobtainable from commercial quality high-speed cameras!

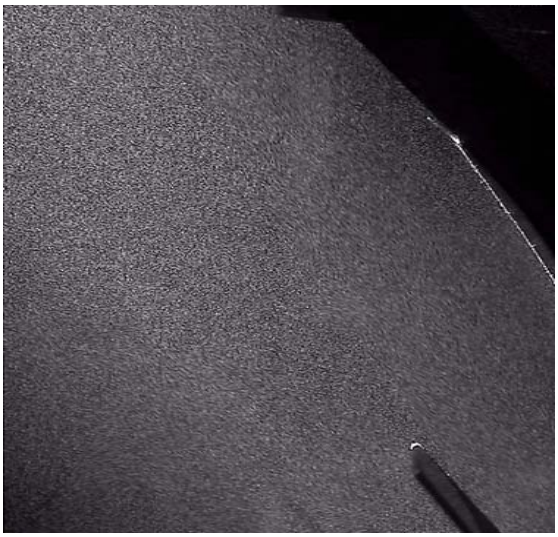
Airflow around a model car - Memrecam GX-ir at 2,000 fps

NAC's dedication to image quality and light sensitivity is evident in the **Memrecam GX-*ir*** cameras which offer mega pixel resolution, long record times, and high frame rates! Using the very latest CMOS sensor technology, the NAC **Memrecam GX-*ir*** cameras have an ***ISO rating of 20,000!***

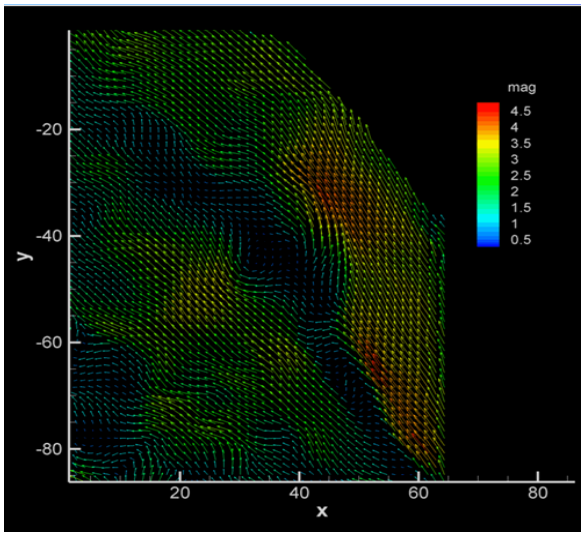
The robust **GX-*ir*** is perfect for a variety of applications including: PIV, nocturnal research, low light studies, combustion, flow visualization and other applications where light sources in the 250nm to 1100nm spectrum are used.

FLOW VISUALIZATION

Airflow around a fan blade taken with Memrecam GX-ir at 3,000 fps



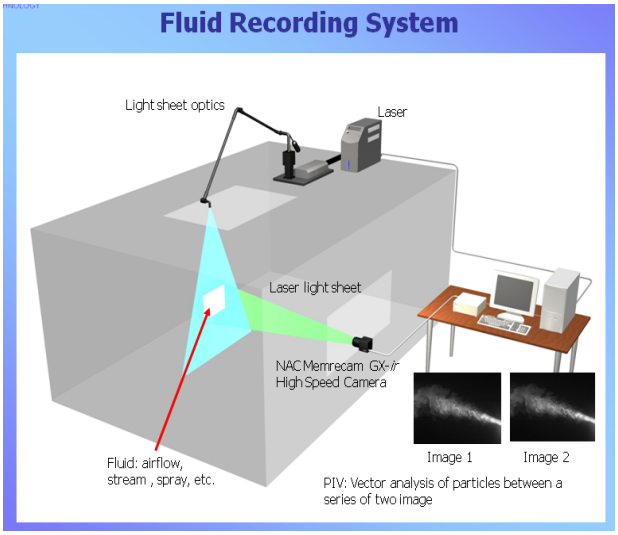
PRE—PIV Analysis

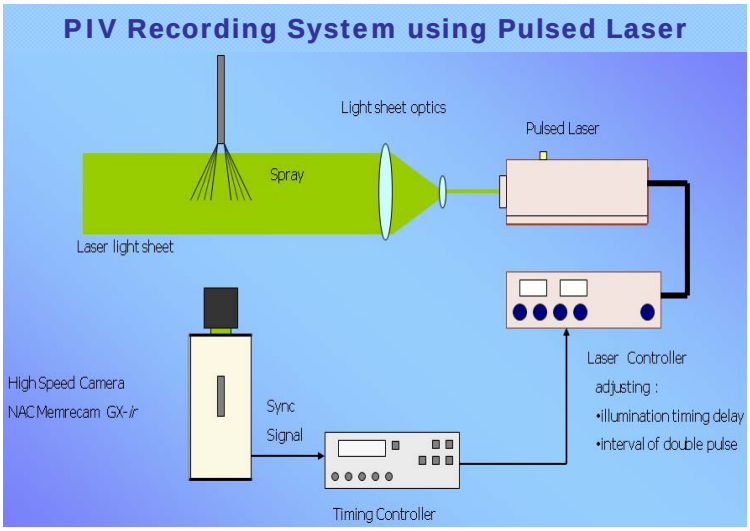


POST—PIV Analysis

Choose NAC to help address your high-speed imaging needs and you'll see *The Visible Difference!*

Visit our website at www.nacinc.com





Memrecam GX-*ir* Features:

- Superior Light Sensitivity: >20,000 ISO
- High Resolution: Mega pixel resolution up to 3,600 frames
- Adjustable Frame Rates beginning at 50fps 1fps increments (maximum frame rate varies with model)
- Electronic shutter: OPEN to .5 micro second
- Supports Nikon's new AF-G Lenses
- Selectable Bit Density: 12 bits / 10 bits / 8 bits (extends recording) STANDARD
- Variable Region of Interest with Continuously adjustable resolution in 16 x 4 pixel increments
- Gigabit Ethernet Laptop Friendly Interface
- Continuous Live Video Output (NTSC / PAL) during setup and recording
- Auto Exposure Control
- Dynamic Range Expansion Shutter (pixel level shuttering)
- Versatile Recording: Burst-Trigger, Multi-Trigger and Event-Trigger Modes
- Memory Segment with automatic segment change capability
- External Sync Recording
- IRIG-B Timing Capture and Synchronization with Phase Shift
- Built-in Memory Backup
- USB2 for direct download to external storage (HDD, Flash Memory Card, etc.)
- Convenient functions for FOV setting: Low Light Mode, Fiducial Mark

Memrecam GX-ir Software

Camera Control: Camera connection, VIEW, set recording parameters, ARM, Trigger, playback, image download, modify image settings and format conversion.
Synchronous Data Recording: Scene number, date and time of trigger (including IRIG time), shutter speed, date and time of test (including IRIG time), camera settings, video process data and comments.
Image Processing: Image quality adjustment (e.g. white balancing, adjustments for gain, knee, gamma, and edge enhance), select region of interest, display of stored image information and format conversion.
Playback: Variable playback speed in forward and reverse, including freeze frame and endless loop. Single images can be reviewed or multiple images in split screen. Zoom function is available for image playback.
Measurement: XY Coordinate information is exportable to a CSV file and is therefore compatible with a variety of spreadsheet packages. Linear or angular measurements are available including displacement, velocity and acceleration.
Software Developers' Kit: NAC provides a standard SDK based upon an ActiveX component. The SDK will support C++, Visual C++ and Visual Basic.

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