



the most experienced  
name in high speed  
cameras

# MEMRECAM HX-7s

High Speed Camera System

The MEMRECAM HX series:  
the world's most versatile family of high speed  
camera systems!

## FEATURES

**CMOS Sensor:** 2560 X 1920—  
all Active Pixels

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

**Electronic Shutter:**  
10msec to 1.1usec

**Standalone Operation:** Compact,  
lightweight camera requires no laptop  
or PC for local control.

**Simultaneous Record and  
Download:** Simultaneously record  
to one memory segment while  
downloading data from a second  
memory segment.

**Fast Data Download:** Record to  
commercial off-the-shelf non-volatile  
HDD media at up to 500MB/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 equals 286  
nanoseconds.

**Dual Segment Recording:**  
Simultaneously record to two  
distinct memory segments at two  
different imaging speeds.

**Ultra-High Light Sensitivity**

**Ruggedized for Range Use**



nac's compact, lightweight MEMRECAM HX-7s offers an astounding 5 Mega Pixel resolution at up to 850 fps, Full HD resolution at up to 2,000 fps, 1 Mega Pixel resolution at up to 3,600 fps, and so much more! The HX-7s gives the user the best possible solutions: the highest resolutions available; the highest light sensitivity available; true mobility and stand-alone performance; and ultra fast imaging.

***The HX-7s is literally two cameras in one!***

When it comes to reliable, high-quality, high-speed camera systems, make the safe choice with nac and you'll *see the visible difference!*

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MEMRECAM HX-7s Specifications		
Max Res (pixels)	2560 X 1920	
Optical Format	35.20 mm	
fps @ Max Res	850	
	Mono	Color
ISO Rating IQ-mode	10,000	2,000
ISO Rating S-mode	80,000	16,000

Memory Option	16GB, 32GB
Maximum fps	200,000

*\* Note: Recording Time Depends on Memory Configuration, Resolution, Frame Rate and Image Bit Depth.*

Imaging Formats	Max Res @ Format
<b>High Def: 16 X 9</b>	
1920 X 1080	2,000
1280 X 720	4,000
<b>Other Formats</b>	
4 Mega Pixel	1,000
3 Mega Pixel	1,400
2 Mega Pixel	2,000
1 Mega Pixel	3,800
XGA (1024 X 768)	5,000
768 X 624	8,000
640 X 592	10,000
VGA (640 X 480)	12,000
576 X 432	15,000
448 X 312	25,000
320 X 192	50,000
320 X 88	100,000
320 X 48	150,000
320 X 32	200,000

## 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
- Ultra Fast Download to USB 3.0 and CFast
- 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 - 2.9kg  
100W x 100H x 205D (mm)

Visit our website at  
[www.nacinc.com](http://www.nacinc.com)

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

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