



the most experienced
name in high speed
cameras

MEMRECAM HX-7

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-7 offers an astounding 5 Mega Pixel resolution at up to 800 fps, Full HD resolution at upto 2,000 fps, 1 Mega Pixel resolution at up to 3,600 fps, and so much more! The HX-7 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-7 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!*

MEMRECAM HX-7

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| MEMRECAM HX-7 High Resolution Mode | | |
|------------------------------------|-------------|--------------|
| Max Res (pixels) | 2560 X 1920 | |
| Optical Format | 35.20 mm | |
| fps @ Max Res | 800 | |
| | Mono | Color |
| ISO Rating | 10,000 | 2,000 |

| MEMRECAM HX-7 High Speed Mode | | |
|-------------------------------|-------------|--------------|
| Max Res (pixels) | 1280 X 960 | |
| Optical Format | 35.20 mm | |
| fps @ Max Res | 3,364 | |
| | Mono | Color |
| ISO Rating | 40,000 | 8,000 |

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

| Imaging Formats | Max Res @ Format |
|-------------------------|------------------|
| High Def: 16 X 9 | |
| 1920 X 1080 | 2,000 |
| 1280 X 720 | 4,000 |
| Other Formats | |
| 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 |

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

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

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

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