



the most experienced
name in high speed
cameras

MEMRECAM HX-3E

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:
OPEN to < 1.1µsec

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 to
< 50 nanoseconds.

Straddle Mode:
Inter-frame time for
PIV applications equals
125 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 Memrecam HX-3E offers an astounding 5 Mega Pixel resolution at up to 2,000 fps, Full HD resolution at up to 4,670 fps, 1 Mega Pixel resolution at up to 9,220 fps, and so much more! The HX-3E gives the user the best possible solutions: the highest resolutions available; the highest light sensitivity available; and ultra fast imaging.

The HX-3E is literally two cameras in one!

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



MEMRECAM HX-3E

High Speed Camera System



| Memrecam HX-3E High Resolution Mode | | |
|-------------------------------------|-------------|-------|
| Max Res (pixels) | 2560 X 1920 | |
| Optical Format | 35.20 mm | |
| fps @ Max Res | 2,000 | |
| | Mono | Color |
| ISO Rating | 10,000 | 2,500 |

| Memrecam HX-3E High Speed Mode | | |
|--------------------------------|------------|--------|
| Max Res (pixels) | 1280 X 960 | |
| Optical Format | 35.20 mm | |
| fps @ Max Res | 7,690 | |
| | Mono | Color |
| ISO Rating | 40,000 | 10,000 |

| | |
|---------------|------------------|
| Memory Option | 16GB, 32GB, 64GB |
| Maximum fps | 220,000 |

| Imaging Formats | Max fps @ Format |
|------------------|------------------|
| High Def: 16 X 9 | |
| 1920 X 1080 | 4,670 |
| 1280 X 720 | 10,230 |
| Other Formats | |
| 4 Mega Pixel | 2,400 |
| 2 Mega Pixel | 4,740 |
| 1 Mega Pixel | 9,220 |
| XGA (1024 X 768) | 11,780 |
| 768 X 576 | 20,230 |
| VGA (640 X 480) | 28,310 |
| 512 X 512 | 32,410 |
| 512 X 384 | 43,000 |
| 320 X 320 | 74,340 |
| 320 X 240 | 105,800 |
| 320 X 192 | 130,700 |
| 320 X 96 | 220,000 |

* Note: Recording Time Depends on Memory Configuration, Resolution, Frame Rate and Image Bit Depth.
 Recording Time (seconds) = [(Memory Configuration X 1024 X 1,000,000) / (Resolution/Frame)] / (Frames/Second)
 Resolution/Frame (Bytes) = (Horizontal pixels X Vertical Pixels X Bit Depth/8)

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
- Fast Download to USB 2.0 HDD
- 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 - 5.5kg
110W x 140H x 333D(mm)



Visit our website at
www.nacinc.com

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

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