



the most experienced  
name in high speed  
cameras

# MEMRECAM HX Family

## High Speed Camera System

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

#### Memrecam HX Family FEATURES

CMOS Sensor: 2560 X 1920—  
all Active Pixels

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

Electronic Shutter:  
OPEN to  $<1\mu\text{sec}$

HD-Mag Option for Storage:  
High Density, non-volatile,  
memory magazine.

HD-Mag Option for Recording:  
Record directly from the HX1 for  
more than 26 minutes in full HD  
(1080p) resolution at 250fps.

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  
 $< 100$  nanoseconds.

Straddle Mode:  
Inter-frame time for  
PIV applications  
 $< 125$  nanoseconds

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

Ultra-High Light Sensitivity

Ruggedized for Range Use



#### Memrecam HX Proprietary Hi-Resolution Mode

The Memrecam HX Family represents the most versatile cameras in their class.

- Highest resolution
- Highest light sensitivity
- Flexible imaging formats
- Large memory configurations
- Proprietary High Speed Mode
- Best dynamic range performance
- Fastest Shutter Speeds

*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 Family Comparison Hi- Res Mode

## High Speed Camera System



Product Features	NAC Memrecam HX-3 / HX-1	NAC Memrecam HX5	NAC Memrecam HX6
Max Res (Pixels)	2560 X 1920	2560 x 1920	2560 x 1920
Optical Format	35.20 mm	35.20 mm	35.20 mm
fps @ Max Res	2,000	1,370	1,000
Gpix /sec @ Max Res	9.83	6.73	4.92
<b>High Resolution Mode</b>			
ISO Rating - Mono	10,000	10,000	10,000
ISO Rating - Color	2,500	2,500	2,500
<b>High Speed Mode</b>			
ISO Rating - Mono	40,000	40,000	40,000
ISO Rating - Color	10,000	10,000	10,000
Fastest Shutter Speed	200 nano-seconds	300 nano-seconds	200 nano-seconds
Bit Depth	8/10/12-bit	8/10/12-bit	8/10/12-bit
Memory Options	16GB, 32GB, 64GB, 128GB	16GB, 32GB, 64GB	8GB, 16GB, 32GB
Max fps	1,333,200	916,570	666,600
Resolution @ Max fps	320 x 8	320 x 8	320 x 8
Dimensions (mm)	110W x 140H x 333D	110W x 140H x 333D	110W x 140H x 330D
Weight	5.5 kg	5.5 kg	4.9 kg



Imaging Formats / Frame Rates (fps)	NAC Memrecam HX-3 / HX-1	NAC Memrecam HX5	NAC Memrecam HX6
5 Mega Pixel	2,000	1,370	1,000
4 Mega Pixel	2,400	1,650	1,200
1920 x 1080 (Full HD)	4,670	3,210	2,330
1280 x 960	7,690	5,290	3,840
1 Mega Pixel	9,220	6,340	4,610
1280 x 720 (720p HD)	10,230	7,030	5,110
XGA (1024 x 768)	11,780	8,100	5,890
768 x 576	20,230	13,910	10,110
VGA (640 x 480)	28,310	19,460	14,150
512 x 512	32,410	22,280	16,200
512 x 384	43,000	29,560	21,500
320 x 320	74,340	51,110	37,170
320 x 240	105,800	72,740	52,900
320 x 192	130,700	89,860	65,350
320 x 96	246,880	169,730	123,440
320 x 48	444,400	305,520	222,200
320 x 24	740,660	509,200	370,330

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



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