

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 <1μsec

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-Speed 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 Resolution Mode
- Best dynamic range performance
- Fast 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- Speed Mode

High Speed Camera System



Product Features	NAC Memrecam HX-3 / HX-1	NAC Memrecam HX4	NAC Memerecam HX5	NAC Memrecam HX6
Max Res (Pixels)	1280 x 960	1280 x 960	1280 x 960	1280 x 960
Optical Format	35.20 mm	35.20 mm	35.20 mm	35.20 mm
fps @ Max Res	7,690	6,250	5,290	3,840
Gpix /sec @ Max Res	9.83	7.68	6.73	4.92
ISO Rating - Mono	40,000	40,000	40,000	40,000
ISO Rating - Color	10,000	10,000	10,000	10,000
Fastest Shutter Speed	200 nano-seconds	300 nano-secomds	300 nano-seconds	200 nano-seconds
Bit Depth	8/10/12-bit	8/10/12-bit	8/10/12-bit	8/10/12-bit
Memory Options	16GB, 32GB, 64GB, 128GB	16GB, 32GB, 64GB	16GB, 32GB, 64GB	8GB, 16GB, 32GB
Max fps	1,333,200	1,080,000	916,570	666,600
Resolution @ Max fps	320 x 8	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 333D	110W x 140H x 330D
Weight	5.5 kg	5.5 kg	5.5 kg	4.9 kg

Imaging Formats / Frame Rates (fps)	NAC Memrecam HX-3 / HX-1	NAC Memrecam HX4	NAC Memrecam HX5	NAC Memrecam HX6
1280 x 960	7,690	6,250	5,290	3,840
1 Mega Pixel	9,220	7,490	6,340	4,610
1280 x 720 (720p HD)	10,230	8,310	7,030	5,110
XGA (1024 x 768)	11,780	9,570	8,100	5,890
768 x 576	20,230	16,440	13,910	10,110
VGA (640 x 480)	28,310	23,000	19,460	14,150
512 x 512	32,410	26,330	22,280	16,200
512 x 384	43,000	34,940	29,560	21,500
320 x 320	74,340	60,400	51,110	37,170
QVGQA (320 x 240)	105,800	85,970	72,740	52,900
320 x 192	130,700	106,190	89,860	65,350
320 x 96	246,880	200,590	169,730	123,440
320 x 48	444,400	361,070	305,520	222,200
320 x 24	740,660	601,790	509,200	370,330



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