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# MEMRECAM HX-6

High Speed Camera System

2560 x 1920 up to 1,000 frames per second (fps)  
Max frame rate 650,000 fps



## Memrecam HX-6 Features

### CMOS Sensor

2560 X 1920 - all Active Pixels

### Bit Depth

12/10/8-bit (selectable)

### Adjustable Electronic Shutter

down to 300ns

### Adjustable Frame Rates

in 1fps steps

### Adjustable Resolution

### Variable Framing Profile

a variety of frame rates in one recording sequence

### Multiple Trigger Modes

Burst, multi-trigger, restart-trigger and image trigger

### Sync

High resolution timing and sync to < 50ns

### Straddle Mode

Inter-frame time for PIV applications = 125ns

### Memory Segmentation

### Dual Segment Recording

Simultaneously record to two separate memory segments at two different recording speeds

### High Light Sensitivity

ISO 2500 (colour) ISO 10,000 (mono)

### Ultra High Sensitivity in Super Pixel Mode (2x2)

ISO 10,000 (colour) ISO 40,000 (mono)

### Sealed Core

protects against dust, sand, dirt, etc. for use in dirty environments

### Auto Exposure Control

### Automatic Temperature Calibration

### Ultra-Fast Gig-E Interface with DataLock

### Fast Download

to USB 2.0 HDD

### Continuous Live Video Output

### Stand alone control

no PC required

### Memory Backup Battery

### Dynamic Range Expansion Shutter

### IRIG-B Capture & Sync with Phase Shift

### Compact Design

5.5kg -110W x 140H x 333D(mm)



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## High Speed Camera System



Frame Rate	Available Resolution (examples)		Record Time Sec (8 bit)		
	FPS	Hor.	Vert.	8GB	16GB
100	2560	1920	17.04	34.08	68.16
250	2560	1920	6.81	13.62	27.24
500	2560	1920	3.41	6.82	13.64
1,000	2560	1920	1.70	3.40	6.80
2,000	2048	1184	1.71	3.42	6.84
2,300	1920	1080	1.75	3.50	7.00
3,000	1600	992	1.76	3.52	7.04
4,000	1408	840	1.77	3.54	7.08
4,500	1280	816	1.78	3.56	7.12
5,000	1280	736	1.78	3.56	7.12
6,000	1024	752	1.81	3.62	7.21
7,000	1024	640	1.82	3.64	7.28
7,500	1024	600	1.81	3.62	7.21
8,000	896	632	1.85	3.70	7.40
10,000	768	576	1.89	3.78	7.56
15,000	640	448	1.95	3.90	7.80
20,000	512	408	2.00	4.00	8.00
25,000	512	328	1.99	3.98	7.96
30,000	448	304	2.05	4.10	8.20
40,000	448	240	1.95	3.90	7.80
50,000	384	216	2.02	4.04	8.08
75,000	320	160	2.18	4.36	8.72
100,000	320	120	2.18	4.36	8.72
200,000	320	48	2.73	5.46	10.92
300,000	320	32	2.73	5.46	10.92
470,000	320	16	3.48	6.96	13.92
650,000	320	8	5.03	10.06	20.12

The above are some common format examples

\* 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) / (Bytes/Frame)] / (Frames/Second)

Bytes/Frame= (Horizontal pixels X Vertical Pixels X Bit Depth/8)



**nac**  
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*The visible difference*

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