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# MEMRECAM HX-7

High Speed Camera System

2560 x 1690 @ 1000 frames per second (fps)

2560 x 1920 @ 800 frames per second (fps)

Full HD @ 2000fps

Compact Size 100 x 100 x 200mm - 2.9Kg



## Memrecam HX-7 Features

### CMOS Sensor

2560 X 1920 - all Active Pixels

### Bit Depth

12/10/8-bit (selectable)

### Adjustable Electronic Shutter

down to 1 $\mu$ s

### 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

### Straddle Mode

Inter-frame time for PIV applications = 286ns

### 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

### Fast Download

to USB 3 HDD or C-Fast Compact Flash

### 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

2.9kg -100W x 100H x 200D(mm)



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## High Speed Camera System



Frame Rate	Available Resolution (examples)		Record Time Sec (8 bit)		
	FPS	Hor.	Vert.	16GB	32GB
100	2560	1920		34.0	68.1
250	2560	1920		13.6	27.2
500	2560	1920		6.8	13.6
800	2560	1920		4.3	8.6
1,000	2560	1690		3.4	6.8
1500	1920	1664		3.5	7.1
2,000	1920	1080		4.1	8.2
2,500	1408	1184		4.0	8.0
3,000	1280	1072		4.1	8.2
4,000	1280	720		4.6	9.2
5,000	1024	768		4.3	8.6
6,000	896	736		4.2	8.4
8,000	768	624		4.4	8.8
10,000	640	592		4.4	8.8
15,000	576	432		4.5	9.0
20,000	512	352		4.7	9.4
25,000	448	312		4.8	9.6
30,000	384	296		4.9	9.8
40,000	384	216		5.1	10.2
50,000	320	192		5.5	11.0
100,000	320	88		6.0	12.0
150,000	320	48		7.3	14.6
200,000	320	32		8.2	16.4



Optional J-Pad Controller



Rear Panel

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)



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