



Providing quality and reliability since 1958

MEMRECAM HX-7

High Speed Camera System

2560 x 1920 up to 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 μ 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 with DataLock

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

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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