



Providing quality and reliability since 1958

MEMRECAM HX-5

High Speed Camera System

2560 x 1920 up to 1,370 frames per second (fps)
Max frame rate 900,000 fps



Memrecam HX-5 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 < 73ns

Straddle Mode

Inter-frame time for PIV applications = 182ns

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.	16GB	32GB	64GB
100	2560	1920		34.18	68.36	136.72
250	2560	1920		13.67	27.34	54.69
500	2560	1920		6.84	13.67	27.34
1,000	2560	1920		3.42	6.84	13.67
1,300	2560	1920		2.63	5.26	10.52
2,000	2048	1600		2.56	5.13	10.25
2,700	1920	1280		2.53	5.06	10.13
3,200	1920	1080		2.53	5.06	10.13
4,000	1600	1024		2.56	5.13	10.25
4,500	1408	1032		2.57	5.14	10.28
5,000	1280	1016		2.58	5.17	10.33
6,000	1280	840		2.60	5.21	10.42
6,000	1024	1024		2.67	5.34	10.68
7,000	1280	720		2.60	5.21	10.42
7,500	1024	824		2.65	5.31	10.62
8,000	1024	776		2.64	5.29	10.57
10,000	896	696		2.69	5.39	10.78
15,000	768	528		2.76	5.52	11.05
20,000	640	464		2.83	5.66	11.31
25,000	512	448		2.93	5.86	11.72
30,000	512	376		2.91	5.82	11.64
40,000	512	296		2.77	5.54	11.09
50,000	448	264		2.84	5.68	11.36
75,000	384	192		3.04	6.08	12.15
100,000	384	144		3.04	6.08	12.15
200,000	320	72		3.65	7.29	14.58
300,000	320	48		3.65	7.29	14.58
416,000	320	32		3.94	7.89	15.78
500,000	320	24		4.38	8.75	17.50
650,000	320	16		5.05	10.10	20.19
916,500	320	8		7.16	14.32	28.64

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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