

# MEMRECAM HX-3

High Speed Camera System

2560 x 1920 up to 2,000 frames per second (fps)

HX3 : Full Performance

HX3E : Limited in Frame Rate and Shutter Speed



## Memrecam HX-3 Features

### CMOS Sensor

2560 X 1920 - all Active Pixels

### Bit Depth

12/10/8-bit (selectable)

### Adjustable Electronic Shutter

Minimum HX3E 1.1  $\mu$ s; HX3 :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)



# MEMRECAM HX-3E / HX3

## High Speed Camera System



Frame Rate	Available Resolution (examples)		Record Time Sec (8 bit)		
	FPS	Hor.	Vert.	16GB	32GB
100	2560	1920	34.51	69.02	138.04
250	2560	1920	13.80	27.60	55.20
500	2560	1920	6.90	13.80	27.60
1,000	2560	1920	3.45	6.90	13.80
2,000	2560	1920	1.72	3.44	6.88
2,500	2560	1536	1.72	3.44	6.88
3,000	2048	1584	1.74	3.48	6.96
4,000	1920	1256	1.75	3.50	7.00
4,500	1920	1120	1.75	3.50	7.00
5,000	1664	1152	1.77	3.54	7.08
6,000	1536	1032	1.78	3.56	7.12
7,000	1280	1024	1.85	3.70	7.40
7,500	1280	984	1.79	3.58	7.16
8,000	1280	920	1.80	3.60	7.20
10,000	1280	720	1.84	3.68	7.36
15,000	896	672	1.87	3.74	7.48
20,000	768	576	1.91	3.82	7.64
25,000	640	536	1.97	3.94	7.88
30,000	640	448	1.97	3.94	7.88
40,000	512	408	2.03	4.06	8.12
50,000	512	320	2.07	4.14	8.28
75,000	384	272	2.16	4.32	8.64
100,000	384	200	2.20	4.40	8.80
200,000	384	88	2.50	5.00	10.00
220,000	320	96	2.51	5.05	10.13
Below is HX3 Model ONLY					
300,000	320	64	2.76	5.52	11.04
600,000	320	24	3.68	7.36	14.72
800,000	320	16	4.14	8.28	16.56
1,000,000	320	8	6.63	13.26	26.52
1,300,000	320	8	5.10	10.20	20.40

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)

**Model HX3 requires Export Licence**

Specification subject to change



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