Image Technology

Providing quality and reliability since 1958

MEMRECAM GX-1

High Speed Camera System

1280 x 1024 up to 2000 frames per second (fps)

Max frame rate 200,000fps

Memrecam GX-1 Features

CMOS Sensor
1280 X 1024 - all Active Pixels

High Light Sensitivity
ISO 5000 (colour) ISO 20,000 (mono)

Bit Depth
12/10/8-bit (selectable)

Adjustable Electronic Shutter
down to 1µs

Adjustable Frame Rates
in 1fps steps

Ruggedised body
150g, 11ms

Adjustable Resolution

Multiple Trigger Modes
Burst, multi-trigger, image trigger

Sync
High resolution timing and sync

Memory Segmentation

Auto Exposure Control

Automatic Temperature Calibration

Gig-E Interface

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
4kg -100W x 100H x 230D(mm)

MEMRECAM GX1

High Speed Camera System

Frame Rate	Available Resolution (examples)		Record Time Sec (8 bit)		
FPS	Hor.	Vert.	2GB	4GB	8GB
100	1280	1024	16.02	32.04	64.09
250	1280	1024	6.41	12.82	25.63
500	1280	1024	3.20	6.41	12.82
1,000	1280	1024	1.60	3.20	6.41
2,000	1280	1024	0.80	1.60	3.20
2,500	1024	1024	0.80	1.60	3.20
2,500	1280	800	0.82	1.64	3.28
2,700	1280	720	0.84	1.69	3.38
3,000	1024	768	0.89	1.78	3.56
4,000	1024	576	0.89	1.78	3.56
4,000	800	800	0.82	1.64	3.28
5,000	800	608	0.86	1.73	3.45
5,000	704	704	0.85	1.69	3.39
6,000	640	480	1.14	2.28	4.56
8,000	512	512	1.00	2.00	4.01
10,000	512	384	1.07	2.14	4.27
15,000	384	288	1.27	2.53	5.06
20,000	304	304	1.14	2.27	4.54
30,000	224	224	1.40	2.79	5.58
40,000	192	180	1.52	3.04	6.08
50,000	176	124	1.92	3.85	7.70
60,000	144	116	2.10	4.19	8.38
80,000	112	80	2.93	5.86	11.72
100,000	80	76	3.45	6.91	13.82
150,000	32	64	6.84	13.67	27.34
200,000	8	64	20.51	41.02	82.03

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
Image Technology
The visible difference

Vertrieb:
MAK Bildtechnik GmbH
Hafenstr. 4
D - 38442 Wolfsburg
Tel.: +49 (0) 5362 52423
E-mail: info@mak-bildtechnik.de
www.mak-bildtechnik.de