



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 |
| 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)



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