



Providing quality and reliability since 1958

MEMRECAM HX-7

High Speed Camera System

2560 x 1690 @ 1000 frames per second (fps)

2560 x 1920 @ 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

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 |
| 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 |



Optional J-Pad Controller



Rear Panel

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 Deutschland GmbH
Hedelfingerstr. 54-70
70327 Stuttgart
Germany
Tel: +49 (0)711 2201 885
E-mail: rwestphal@nacinc.de
www.nacinc.eu

MAK Bildtechnik GmbH
Corinthstr. 13
38442 Wolfsburg
Germany
Tel.: +49 (0)5362 52423
E-mail: info@mak-bildtechnik.de
www.mak-bildtechnik.de