

# NAC'S Memrecam Ci/RX-2 Digital High Speed Video System...



## Memrecam Ci/RX-2 goes where other high speed video can't

The Memrecam Ci/RX-2 color, high speed video system features a very small (2.4 X 2.2 X 4 inch), light (less than 1 1/2 lbs.), separable camera head designed to fit into confined spaces such as under dashboards or mounted in engine compartments during automotive crash tests. In airborne testing, RX-2 can be mounted in confined cockpits or out on wings. Shock tested to 150 G's at over 1000 repetitions Memrecam Ci/RX-2 captures high resolution digital images in brilliant color in any severe environment including ballistic ranges and rocket engine tests. Memrecam Ci/RX-2 provides extended record times and high resolution images of 510 X 484 pixels. And, because its electronic shutter is highly sensitive, the RX-2 requires lower lighting levels than previous color systems.

Easy to set up, Memrecam Ci/RX-2 lets you record or playback using the controls mounted on the camera or remotely via a PC or hand held controller. An optional multi-camera control system gives the user the option of controlling all functions of up to 10 Memrecams from a single PC from as far away as 500 meters.

Memrecam Ci/RX-2 simultaneously records in high speed mode while providing two video output

signals to monitors for viewing test images in real time. Several trigger signal options are pre-programmed to allow Memrecam to save pictures from the beginning, middle or end of an event. Other options available include, memory backup, a J-pad hand held controller, format converter and additional memory capacity.

Memrecam Ci/RX-2 interfaces with many image transfer and storage devices which allow viewing of captured images on a standard P.C. including; Jazz drives and frame grabbers. The resulting signals can easily be converted to TIFF images for presentations and for use with motion analysis software.

## Memrecam Ci/RX-2 Features

- Small, detachable, ruggedized (up to 150 G's) camera head
- Selectable frame rates of 100, 250 and 500 pictures per second
- Brilliant color high resolution pictures of 510 X 484 pixels
- Easy to set up, record or playback with both local and remote control
- Entire self contained camcorder weighs only 11 lbs.
- Up to ten Memrecam Ci/RX-2 systems can be connected together and controlled using the optional Memrecam Multi-Camera Control System

### Memrecam Ci/RX-2 Record Times

Model	PPS	Pixel Format/Recording Time (seconds)
		510 X 484
Standard Memory	100	21.8
	250	8.7
	500	4.3
Maximum Memory	100	65.4
	200	26.1
	500	12.9

# NAC Memrecam Ci/RX-2 Digital High Speed Video System SPECIFICATIONS

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## Ci/RX-2 Controls

<b>Camera (Local) Controls:</b>	Operator Settings
<b>Camera ID:</b>	0 through 9, or A through Z
<b>Scene No.:</b>	0 through 65535
<b>Recording Rates:</b>	100, 250, 500
<b>Frame Size:</b>	Full
<b>Gain:</b>	0, 6, 12 db
<b>White Balance:</b>	3100, 5000, 9000, Auto tracking, Register
<b>Edge Enhance:</b>	Off, Low, Mid, High
<b>Gamma:</b>	Off, Low, Normal
<b>Trigger:</b>	Start, Center, End

## Memrecam Ci/RX-2 Options

1. Multi-Camera Control System (controls the operation of up to 10 camera systems from a single PC).
2. Remote Control System (controls the operation of a single camera system remotely via a PC).
3. J-Pad (a hand held controller for remote control of a single camera system).
4. Memory Upgrade (extends record time).
5. Memory Backup (backs up memory in case of power loss).
6. Format Conversion Software.
7. Image Storage via Jaz media.

## Specifications

<b>Recording System:</b>	DRAM
<b>Recording Time:</b>	4.3 to 21.8 seconds, depending upon frame rate
<b>Video Output:</b>	NTSC or PAL (display size is reduced for PAL video output)
<b>Recording Mode:</b>	Manual, External, Start, Center and End Trigger
<b>Playback Mode:</b>	Single, Loop
<b>Replay Speeds:</b>	1, 2, 4, 8, 15, 30, 60, 120, 240, 480 and 960 fps
<b>SYNC System:</b>	Optional Multi-Camera Control System
<b>Digital Interface:</b>	SCSI, RS - 232C
<b>Operating Temperature:</b>	0-40°C, 30 to 80% RH, no condensation
<b>Storage Temperature:</b>	-10-60°C, 20 to 80% RH, no condensation
<b>Shock:</b>	Camera Head - 150G, 11 ms, 1000+ cycles Processor - 100G, 11ms, 1000+ cycles
<b>Vibration:</b>	MIL-STD-810D, METHOD 514.3
<b>Electronic Shutter:</b>	OPEN, 1/1000, 1/2000, 1/4000, 1/10,000, 1/20,000
<b>Sensor:</b>	1/3 inch, Single Chip, Color
<b>Pixel Format:</b>	510 x 484 pixels
<b>Lens Mount:</b>	"C" Mount
<b>Camera Size:</b>	2.4" W x 2.2" H x 3.9" L (60mm x 55mm x 100mm)
<b>Camera Weight:</b>	1.3 lbs. (0.6 kg.) without lens
<b>Processor Size:</b>	5.8" W x 5.5" H x 9.6" L (150mm x 140mm x 245mm)
<b>Processor Weight:</b>	11 lbs. (5.5 kg.)
<b>Voltage:</b>	20-32 VDC, 2.5-1.7 Amps
<b>Power:</b>	50 W operating