

# NAC's HSV-4000 High-Speed Color Video System



## The NAC HSV-4000 high-speed color video system provides ultra-long record times at up to 4000 pps.

The HSV-4000 is ideal for applications that demand full frame resolution at 1,000 fps. The extremely long record times of the HSV-4000 system (up to 10 minutes) make it perfect for high-speed events where it is difficult to predict when the event may occur.

Whatever the application, the HSV-4000 delivers the crisp, high-resolution, brilliant color pictures that are required to understand what is truly occurring during a high-speed event. Because the HSV-4000 records on inexpensive, readily available S-VHS and VHS tape cassettes, the original tapes can be played back anywhere on a standard VCR.

The HSV-4000 system consists of a video cassette recorder (VCR) and color digital camera. An easy-to-use hand held keypad controls all the record and playback functions. Playback speeds can be incrementally increased or decreased from the still position through a unique rotary control.

**The NAC HSV-4000 is the only solution for those who require high frame rates and the long record times needed for high-speed events that are difficult to predict.**

### Japan/Asia

NAC Image Technology, Inc.  
8-7 Sanban-cho, Chiyoda-ku,  
Tokyo, Japan 102-0075  
Tel: +81-3-5211-7960  
Fax: +81-3-5211-7975

Visit us at [www.nacinc.com](http://www.nacinc.com)

### The Americas

NAC Image Technology  
193 Jefferson Ave, Suite 102  
Salem, MA 01970 U.S.A.  
Tel: (833) 600-0280  
E-mail: [sales@nacinc.com](mailto:sales@nacinc.com)

### Europe

NAC Deutschland GmbH  
Hedelfingerstr. 54-70  
70327 Stuttgart, Germany  
Tel: +49(0)711-4065833  
Fax: +49(0)711-4065834  
E-mail: [rwestphal@nacinc.de](mailto:rwestphal@nacinc.de)  
Website: [www.nacinc.de](http://www.nacinc.de)

**nac**  
Image Technology

# NAC HSV-4000 Specifications

---

<b>Recording System:</b>	S-VHS/VHS/S-VHS ET
<b>Frame Rate (Display Size):</b>	500 pps (Full Frame), 1,000 pps (Full Frame), 2,000 pps (Half Frame or Full Frame) and 4,000 pps (Quarter Frame or Full Frame)
<b>Sensor:</b>	640 x 484 pixels, 12-micron CMOS
<b>Image Resolution:</b>	S-VHS: 320+TV lines, VHS: 200+TV lines
<b>Color/Monochrome:</b>	Color/Monochrome Switchable
<b>Recording Time:</b>	Approximately 10 min. using a ST-180/T180 cassette Approximately 7 min. using a ST-120/T120 cassette
<b>Shutter:</b>	OPEN to 1/200,000 sec.
<b>Sensitivity:</b>	24,000 lux at F4 and 1000 pps
<b>Video Output:</b>	NTSC/PAL
<b>Local Operation:</b>	Possible by control panel of VCR or handheld controller (wired/wireless)
<b>Remote Operation</b>	Possible by RS-232C Serial Interface and/or HSV Control & Capture Software
<b>Playback:</b>	Normal, Still, Step, Search (variable speed from slow to fast)
<b>FF/REW :</b>	Approximately 1 min. (ST-120)
<b>Lens Mount:</b>	C-mount
<b>Camera Cable:</b>	Up to 40 meters
<b>Size (mm):</b>	Camera: 100W x 100H x 137D VCR: 250W x 147H x 347D
<b>Weight:</b>	Camera: Approximately 1.5kg VCR: Approximately 9.5kg
<b>Power:</b>	20-32 VDC (AC adapter is Available)