

# NAC's HSV-1000 Color High Speed Video System



## Long record times on inexpensive VHS or S-VHS tape cassettes make the HSV-1000 versatile and cost-effective.

The very long record times of the HSV-1000 system (up to 14 minutes) make it perfect for finding a malfunction in a pick and place station on an assembly line, packaging line or for determining a subject's progress during biomedical studies. Whatever the application, the HSV-1000 delivers the crisp, high resolution brilliant color pictures that are required to understand what is occurring during a high speed event. And, because HSV-1000 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-1000 system consists of a video tape recorder (VCR) and video monitor mounted on an inte-

gral cart and the HSV-1000 color camera. An easy-to-use hand held keypad controls all record and playback functions. Playback speeds can be incrementally increased or decreased from the still position through a unique rotary control.

The HSV-1000 camera records at 500 or 1000 fps with a variable shutter that helps capture sharper pictures than similar systems. Daylight and tungsten optical filters are built-in and can be switched by the twist of a control for correct color balance indoors or out. For added versatility the HSV-1000 camera is easily switched to monochrome operation for those times when a black and white image is more appropriate. The camera also has record and playback controls on the rear panel to run the system from the camera.

## HSV-1000 Features

- Recording speeds: 1000 or 500 pps
- Records on low cost, readily available S-VHS or VHS tapes
- Playback options include: Forward, Reverse, Still, Stop, Jog, Search, Variable Speed
- Recording times up to 14 minutes with ST-120
- Resolution of up to 350 + horizontal lines
- Output: Y/C, NTSC or PAL
- Easy-to-use hand held controller makes operation simple
- Original tapes play on standard VCR's

## Options

- Wave inserter
- IRIG timing and sync.

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## SPECIFICATIONS

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### VCR

|                          |   |
|--------------------------|---|
| <b>Recording Speeds:</b> | 500 or 1,000 pictures per second                                |
| <b>Recording Format:</b> | S-VHS or VHS switchable   |
| <b>Output:</b>           | NTSC/PAL and Y/C (display size is reduced for PAL video output) |
| <b>Playback:</b>         | Forward/Reverse, Still, Step, Job Search, Variable              |
| <b>Freeze Frame:</b>     | Built-in picture memory (one picture)                           |
| <b>Cassette Tape:</b>    | S-VHS or VHS  |
| <b>Recording Time:</b>   | 14 minutes with ST-120 or T-120                                 |
| <b>Resolution:</b>       | 350+ lines horizontal resolution                                |
| <b>Power:</b>            | 90-132 AC   |
| <b>Weight:</b>           | 109 lbs.  |
| <b>Size:</b>             | 33.5"H x 20.8"W x 20.2"D  |
| <b>Temperature:</b>      | Operation: 0 to +45°C<br>Storage: -10 to 60°C                   |
| <b>Humidity:</b>         | Operation: non-condensing RH<br>Storage: 0 to 80% RH            |
| <b>Monitor:</b>          | 750+ lines horizontal resolution                                |

### Camera

|                      |   |
|----------------------|---|
| <b>Sensors:</b>      | MOS 2/3 inch                                |
| <b>Shutter:</b>      | 1/500, 1/1000, 1/2500, 1/5000, 1/10000      |
| <b>Resolution:</b>   | 400+ lines, video resolution                |
| <b>Lens Mount:</b>   | C Mount                                     |
| <b>Pixel Count:</b>  | 649 x 491                                   |
| <b>Cable Length:</b> | 7m standard, 25m and 50m optional           |
| <b>Weight:</b>       | 9 lbs. without lens                         |
| <b>Gain:</b>         | 0 dB, +6 dB, +12 dB switchable              |
| <b>Size:</b>         | Approx. 7.2"H x 5.3"W x 11.8"L without lens |