



# Nac HSV-200 Shuttered High Speed Video

*... the slow motion  
analysis problem solver*

In many industrial fields, engineering design, production, research and development, etc., problems occur repeatedly that are centered around events that happen too fast for the eye to see. And if you've encountered a similar situation, you know how frustrating it can be to not be able to pinpoint a problem because you just can't see what is happening. The HSV-200 High Speed Video Motion Analysis System has been designed to answer these problems - instantly. Recording at 200 fields per second, in full color, it captures the action and slows it down for you to analyze and resolve.

The HSV-200 comprises four basic elements... a specially designed 3-tube camera with mechanical shutter and true 200 field per second capture rate, a high output 20 microsecond strobe, portable VTR record/playback unit, and a high speed color monitor.

The HSV-200 was designed with the user in mind. You don't have to be a video specialist to operate this system. Using standard economical VHS cassettes, you can record a full 36 minutes with exposure times from 500 to 20 microseconds providing close to 1/2 million fields of data.

And there's a repeat mode for continuous recording, a two-track audio system, and scene number with time to the nearest 5 milliseconds on each field. Options include a second camera/strobe for split-field recording, shutters, 5" viewfinder and a selection of standard "C" mount lenses.

The HSV-200 has been designed as an economical and reliable high speed video system that can be easily used by the practicing engineer, researcher, production/quality specialists and a host of other endeavors. We invite your inquiry on how the HSV-200 can help you become... *the problem solver.*



## Specifications

- Video Format:** VHS standard
- Scanning Rate:** 200 fields per second
- Vertical Resolution:** > 210 lines (color)  
> 240 lines (B&W)
- Horizontal Resolution:** > 300 lines
- Scanning Line:** 262.5 lines (200 field/sec.)  
effectively > 220 lines
- Recording Time:** 36 minutes with VHS-T120  
cassette
- Record System:** Rotary two heads helical scan
- Shutter Speed:** 1/2000 second standard  
(1/5000 and 1/10,000 optional)
- Exposure Times:** 500 microseconds with  
1/200 sec. shutter .20 microseconds with strobe
- Playback Modes:** Normal (plays at recorded  
speed). Slow Motion Forward, continuously  
variable from 1 to 15 fields/sec. Slow Motion  
Reverse, 10 fields/sec. Single Frame Advance.  
Still, stop motion (up to 40 seconds).
- Power Supply:** 100, 120, 220 and 240 VAC  $\pm 5\%$
- Tape Counter:** Automatic rewind to zero on replay  
mode.
- Cue Signal:** Automatic stop by recorded cue  
signals.
- Scene Code Display:** 3-digit manual set —  
automatic advance
- Time Display:** 7-digit reading to 5m sec.
- Audio:** 2-channel, cue and record, single speaker