

**SECRET**

Approved For Release 2005/06/23 : CIA-RDP78B04770A002700040011-8

D R A F T

NPIC/P&DS/D/6-  
14 June 1966

Declass Review by NGA.

MEMORANDUM FOR THE RECORD

DATE: 12 May 1966

PLACE:

25X1

25X1

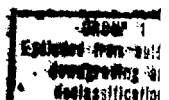
1. [redacted] is engaged in R&D of video tape recorders for the home use market. This company uses a simple longitudinal recording technique ~~of xxxxx~~ (similar to magnetic tape sound recorders) rather than the helical scan techniques of most other portable tape recorders. In this system, the recorder/reader heads outlast helical scan heads by a factor of 4 (800-1000 hours), and can be easily replaced in a few minutes by the owner. This is quite different from the helical and transverse scan heads which require exact, time consuming alignment by skilled technical personnel. Two basic recorders are produced by [redacted]. One is a  $\frac{1}{2}$  inch magnetic tape unit which records on 4 tracks on the tape (back and fourth twice) and the other is a  $\frac{1}{4}$  inch tape unit which records on two tracks (backward and forward). The  $\frac{1}{2}$  inch tape system is used where longer recording times are necessary (more than  $\frac{1}{2}$  hour). Other than the tape width differences, the two recorders are the same.

25X1

2. Two tape speeds are utilized for recordings--120 ips and 60 ips, depending upon the quality of recording desired. The black and white system demonstrated at 120 ips used an 800kc-lmc band width capability which produced a surprisingly good image. The 60 ips recording left a lot to be desired, even for home recording.

3. The company is now developing a full color version using the same basic system. A breadboarded demonstration showed that a color system is possible. The quality of the demonstration was what could be expected from a bread-boarded system.

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4. While the system demonstrated was unique and of surprisingly good quality, and would be a good home system , there are no applications to the Center's quality requirements.

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