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# VIDEO GAME SPECIFICATIONS FOR GENERAL INSTRUMENTS ${ }^{1 / 9}$ 

Dr. David P. Chandler

## 1. GENERAL

The objective of the systems engineering task is to develop a programmable video game which is attractive, versatile, offers sophisticated game play and captivating visual and sound effects, and meets F.C.C. and UL requirements -- all at the minimum cost consistent with these objectives.
2. GENERAL INSTRUMENTS RESPONSIBILITIES

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(1) $100 \%$ testing of parts delivered by General Instrments to Magnavox.
(2) Sampled receiving inspection at Magnavox of General Instrument integrated circuits tested as sets.
-(3)-100\%-go-no-go restirg of each assembled pr inted circuit board. (4) Fault isolation testing of failed printed circuit boards $3^{(5)} 100 \%$ go-no-go testing of assembled systems for use as final inspection at Magnavox and as sampled receiving inspection by Mattel.
C. Management of preparation for and obtaining F.C.C. approval.

## 3. FUNCTIONAL CHARACTERISTICS

The electrical functional characteristics are most accurately defined
by identifying the major circuit elements to be designed into this system，which are：

A． 11610 CPU
B． 1 STIC II TV Interface Chip（per spec dated
C． 120 K ROM（40pin）Graphics ROM（GROM）＇
D． $512 \times 8$ RAM Graphics RAM（GRAM）
E． 1 RA－3－9600 Background RAM，Bus Buffer，and $112 \times 16$ Scratchpad RAM
F． 128 X 8 RAM Additional Scratchpad RAM
G． 1 20K ROM（40Pin）Resident Program ROM
H． 1 Sound－I／O IC
I．Place for 1 additional 20 K （ 28 Pin ）Resident ROM
J． 1 ASTEC 1284 Modulator，with channel $3-4$ select and both color and sound modulated．
K． 1 or 220 K ROM（ 28 Pin ）Cartridge Program ROM per Cartridge
L．All the necessary circuitry（including power supply）to make these work properly

## 4．PHYSICAL CHARACTERISTICS

The physical constraints imposed on the various printed circuit boards are defined by Mattel＇s drawings：Layout（2609），Layout P．C．B．（2609）．

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 depth of the connector $h$ gusing．Signals on this connector are DBO－DBX年，年control lines，ground， and $2+5$ volt lines．（The cartridge connects +5 volt power back to the logic board．）

B．Controllers－Two 9 Pin connectors（Magnavox part 菲 181254）．See （Input）layout P．C．B．drawing for desired location．On each connector，pin 1 is ground，pins $2-9$ are 8 bit input character going to sound－I／O IC．Pin 2 is least significant bit．Controllers are 8 switches to the ground line with a maximum of 100 ohms series resistance per switch．

C．Power（Input）－ 5 pin connector（Magnavox part 非181300）．See
layout P．C．B．drawing for desired location．Pin designation left up to General Instruments．

D．Antennaf Cable－Phono socket on modulator．RF signal suitable （Output）

E．Channel Select－Slide switch（Magnavox part 非160556－2）． （Input）

F．Reset Switch－Momentary，normally open contacts（Magnavox part （Input）非160599－1 and 160599－2）．These parts must be attached to circuitry side of P．C．board and may require special holes．Coordinate with Cliff Perry．

Note that（1）logic board should be designed for two resident ROMS（only the 40 pin one is presently planned to be used，（2）all 28 and 40 pin IC＇s should have single sided pin holes with no copper on the component side and no plating through the holes so that components can be removed without destroying the P．C．board，（3）if logic board length approaches the max－ imum length，the controller connectors will have to be recessed to provide clearance from the power supply board and the transformer．

6．POWER SUPPLY BOARD
The power supply board is a single sided P．C．board which is mounted with the components side up．The space allocated for the power supply board is shown on the layout drawing．The length of the power supply board can be extended if the logic board is not made the maximum length． Note that enough space must be left between the two boards．

The power supply board is used as a junction between the transformer and the on－off switch．Thus，all the transformer secondary leads are connected to the power supply board using a 5 pin connector（Magnavox part 非10000）． The output power from the power supply board to the logic board is trans－ mitted by a 5 wire cable with leads soldered into the power supply board． The thies limes，he cuntctid go and comefromion．dry 181013－5 7．CARTRIDGE PRINTED CIRCUIT BOARD

The printed circuit board in the cartridge is a single sided board with edge fingers to mate with the connector on the logic board and is designed to mount 1 or 228 pin ROMS．The physical constraints for the board are indicated on drawing The circuit connections are those described in 5A．An example of the circuit connections using the standard ROM pinout is shown in attachedosketuh．

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Video Game Specitications for G．I．
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layout P．C．B．drawing for desired location．Pin designation left up to General Instruments．

D．Antennae Cable－Phono socket on modulator．RF signal suitable （Output） for driving all properly operating T．V．＇s through antennae cable and switch（Magnavox part 非461218 and ）．

E．Channel Select－Slide switch（Magnavox part 非160556－2）． （Input）

F．Reset Switch－Momentary，normally open contacts（Magnavox part （Input）非160599－1 and 160599－2）．These parts must be attached to circuitry side of P．C．board and may require special holes．Coordinate with Cliff Perny．

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6．POWER SUPPLY BOARD
The power supply board is a single sided P．C．board which is mounted with the components side up．The space allocated for the power supply board is shown on the layout drawing．The length of the power supply board can be extended if the logic board is not made the maximum length． Note that enough space must be left between the two boards．

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 The output power from the power supply board to the logic board is trans－ mitted by a 5 wire cable with leads soldered into the power supply board．

7．CARTRIDGE PRINTED CIRCUIT BOARD
The printed circuit board in the cartridge is a single sided board with edge fingers to mate with the connector on the logic board and is designed to mount 1 or 228 pin ROMS．The physical constraints for the board are indicated on the drawing．The circuit connections are those described in 5A．An example of the circuit connections using the standard ROM pinout is shown in attached．

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| D．Antennae Cable | Phono socket on modulator．RF signal suitable |
| :---: | :--- |
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| antennae cable and switch（Magnavox part 非461218 |  |
|  | and |

E．Channel Select－S1ide switch（Magnavox part 非160556－2）． （Input）

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Dr. David P. Chandler

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$$
\begin{aligned}
& \text { underlying this apecelsitudn w } \\
& \text { The, objective of the systems engineering task-is to develop } \wedge^{\text {a program- }} \\
& \text { mable video game which is attractive, versatile, offers sophisticated } \\
& \text { game play and captivating visual and sound effects, and meets F.C.C. } \\
& \text { and UL requirements -- all at the minimum cost consistent with these } \\
& \text { objectives. Charactenctice. }
\end{aligned}
$$

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## ievoduys.

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B. Controllers
(Input)


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C. Power (Input)
- 5 pin connector (Magnavox part $4181031-5 \geqslant$.

See

March 6, 1978 (Revised March 8, 1978)
layout P.C.B. drawing for desired location. Pin designation left up to Geacon Instruments. GI.
D. Antenna Cable (Output)

- Phono socket on modulator. RF signal suitable for driving all properly operating T.V.'s through
 and $701702=005$ ).
- Slide switch (Magnavox pare-160556-2\%) nountid m PC read.
- Momentary, normally open contacts (Magnavox-part
 attached to circuitry side of P.C. board and may


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DPC/1b

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\begin{aligned}
& \text { to systend }
\end{aligned}
$$

$$
\begin{aligned}
& \text { supply }
\end{aligned}
$$

## m.s. $3 / 6$

TO: Distribution

FROM:
Kent Wall
DATE: May 10, 1978
SUBJECT: Sales Meeting and CES - June 7-15

This is to outline the schedule for both the Sales Meeting and the Consumer Electronics Show (CES) in Chicago. I have included a list of as many of the coordinating details as can be defined at this time. Please review the attached as it affects your specific area of responsibility and get back to me with any questions and/or problems.

Information on hotel accommodations, etc. will be coordinated directly by Sylvia Meza (Ext. 1852).


SKW:slm
Distribution:
A. Adler
D. Bogart
A. Carlson
D. Chandler
R. Chang
H. Cohen
J. Dickerman
J. Kingsbury
E. Krakauer
M. Kuhn
F. Murnane
S. Platt
H. Reekie
J. Rochlis
J. Rubenstein
P. Towne
S. Verduzco
cc: Steve Goldstein
Jeff Heimbuck
Gus Lizzi
Missy Powell
OUTLINE / SCHEDULE

$$
\text { C E S } 1978
$$



$$
\begin{aligned}
& \text { OUTLINE/SCHEDULE } \\
& \text { SALES MEETING AND CES } 1978 \\
& \frac{\text { DATE }}{6 / 7} \quad 9: 00 \text { A.M. }
\end{aligned} \begin{aligned}
& \text { Mattel personnel and } \\
& \begin{array}{l}
\text { equipment arrive throughout } \\
\text { the day. }
\end{array}
\end{aligned} \begin{aligned}
& \text { Mattel Suite at the } \\
& \text { Ritz-Carlton Hotel }
\end{aligned}
$$

$$
\begin{aligned}
& \text { EQUIPMENT/RESPONSIBILITY } \\
& \hline
\end{aligned}
$$

OUTLINE/SCHEDULE

SALES MEETING AND CES 1978

| DATE | TIME | ACTIVITY |
| :--- | :---: | :--- |
|  | $9: 00$ A.M. | Mattel personnel and <br> equipment arrive threughout <br> the day. |

500 Pinball Press Kits
(Joel Rubenstein)

- Stored in the suite

500 Hand-Held Press Kits
(Joel Rubenstein)
200 Video Press Kits
(Joel Rubenstein)

- Stored in the suite

Stored in the suite
50 Demonstrator Scripts for 50 Demonstrator Scripts for Each
Hand-Held Game (Sylvia Meza) Hand-Held Game (Sylvia Meza)

- Stered in the suite - Stered in the suite Six (6) Hand-Held Counter Demo Units
(Denny Bogart) - Stored in the suite

12 Units Each Hand-Held Game with Pkgs. (Denny Bogart and Shel Platt) Stored in the suite 10,000 Hand-Held Game Brochures
(Denny Bogart and Sylvia Meza) - Stored in the suite

EQUIPMENT/RESPONSIBILITY

$$
\begin{array}{r}
\text { (John Dickerman) } \\
-\quad \text { Stored in }
\end{array}
$$

the suite

## LOCATION

Mattel's Suite at the Ritz-Carlton Hotel
 el the day.

TIME
9:00 A.M

6/7
DATE

DATE
$\stackrel{7}{10}$
OUTLINE/SCHEDULE
SALES MEETING AND CES 1978

## EQUIPMENT/RESPONS:IBILITY

EQUIPMENT/RESPONSIBILITY

$\quad$ commercials for Video System,

$\quad$ Basketball and Football games and
-
the Video System AV presentations
-
LOCATION
McCormick Place
Mattel's Suite at the
Ritz-Carlton Hotel
McCormick Place
Mattel's Suite at the
Ritz-Carlton Hotel

$$
\begin{array}{ll}
\text { 9:30 A.M. } & \text { Booth Set Up } \\
\text { 9:00 A.M. } & \begin{array}{l}
\text { Key Account Presentations } \\
\text { by Appointment } \\
\text { unt } \begin{array}{l}
\text { Only }
\end{array} \\
\text { noon }
\end{array} \\
\text { 9:00 A.M. } & \text { Booth Set Up } \\
\text { 1:00 P.M. } & \text { RS Training } \\
\text { to } \\
\text { 4:00 P.M. }
\end{array}
$$

DATE
LOCATION $\stackrel{\infty}{0}$
Outline/SCHEDULE
SALES MEETING AND CES 1978
$\square$
$\underline{\text { DATE }}$
6/10
 System
*l 6 mm film of Fcotball, Basketball,
and Video System commercials
Lady Luck Display Prototype

$$
\begin{aligned}
& \text { *16mm film of Fcotbal1, Basketball, } \\
& \text { and Video System commercials }
\end{aligned}
$$ System

*16mm film of Fcotball, Basketball,
and Video System commercials
Lady Luck Display Prototype System
$* 16 \mathrm{~mm}$ film of Fcotball, Basketball,
and Video System commercials
Lady Luck Display Prototype
Video System Prototype In-Store
All Video cassettes and packages
200 salesmen's brochures for Videc,
Pinball, and Hand-Held games

- Electric Company Storyboard
- 200 Salesmen's Briefcases
$\frac{\text { LOCATION }}{\text { Ritz-Car1ton Meeting Room }}$
Video System with Football, Space Game,
Baseball, and Las Vegas PROM set up
along with representative frames for
Basketball and Math if possible
Three Las Vegas Pinball Machines
Three each of all hand-held games
with packages
Three hand-held game counter demo units
Video tape playback equipment for TV
commercials as back up to film system

Video System with Football, Space Game,
Baseball, and Las Vegas PROM set up
along with representative frames for
Basketball and Math if possible
Three Las Vegas Pinball Machines
Three each of all hand-held games
with packages
Three hand-held game counter demo units
Video tape playback equipment for TV
commercials as back up to film system
Video System with Football, Space Game,
Baseball, and Las Vegas PROM set up
along with representative frames for
Basketball and Math if possible
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Three each of all hand-held games
with packages
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commercials as back up to film system
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Baseball, and Las Vegas PROM set up
along with representative frames for
Basketball and Math if possible
- Three Las Vegas Pinball Machines
- Three each of all hand-held games
- Thith packages
- Three hand-held game counter demo units
- Video tape playback equipment for TV
$\quad$ commercials as back up to film system
Video System with Football, Space Game,
Baseball, and Las Vegas PROM set up
along with representative frames for
Basketball and Math if possible
Three Las Vegas Pinball Machines
Three each of all hand-held games
with packages
Three hand-held game counter demo units
Video tape playback equipment for TV
commercials as back up to film system and to show A/V presentation on Video
 David Chandler, and Jim Kingsbury will move the following equipment from the suite to the meeting room:
- Video System Prototype In-Store Demo Unit - A11 Video cassettes and packages
EQUIPMENT/RESPONSIBILITY
Denny Bogart, Kent Wall, Mal Kuhn,
David Chandler, and Jim Kingsbury will
move the following equipment from the
suite to the meeting room:
- Video System with Football, Space Game,
Baseball, and Las Vegas PROM set up
along with representative frames for

[^0]OUTLINE/SCHEDULE
SALES MEETING AND CES 1978
Attendance by all sales reps plus Ed Krakauer, Mal Kuhn, Kent Wall, Frank Murnane, Jeff Rochil Sharon Verduzco, David Chandler (or Rick), and At the conclusion of the Sales Meeting the
following items will be moved to the McCormick
Place booth by Denny Bogart, Jim Kingsbury,
and David Chandler:

- All Pinball machines
- All Hand-Held games and packages
except for one set which stays in the
All counter demo units for hand-held

$$
\angle \text { e8ed }
$$

games except for one which stays in
the suite

$$
\begin{aligned}
& \text { the suite } \\
& \text { Lady Luck Display }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Lady Luck Display } \\
& \text { Video System In-Store Display } \\
& \text { All video cassettes, packages, and }
\end{aligned}
$$

$$
\begin{aligned}
& \text { All press releases except for } 10 \text { which } \\
& \text { remain in the suite }
\end{aligned}
$$

$$
\text { All salesmen's brochures except for } 100
$$

which remain in the suite
A.11 price lists and order forms
Video emulators and game programs
Video cassettes of Video System
commercia1, Footbal1 and Basketball
commercials, and Video A/V presentation

$$
\begin{aligned}
& \mathrm{Pi} \text { nball and Video System Print ads } \\
& \text { BrPChures of GE Service Center List }
\end{aligned}
$$

$$
\begin{aligned}
& \text { BrpChures of GE Service Center Listings } \\
& \text { Piplall Warranty Statements }
\end{aligned}
$$

Pipball Owner's Manual
Electric Company Storyboard

OUTLINE/SCHEDULE
SALES MEETING AND
LOCATION
Ritz-Carlton Meeting Room
McCormick Place
$\frac{\text { TIME }}{4: 05 \text { P.M. }}$
9:00 A.M.
6:00 P.M.
$\frac{\text { DATE }}{6 / 10}$
6/11-14
6:00

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EQUIPMENT/RESPONSIBILITY
A11 equipment is packed and returned to Hawhorne or New York.


[^0]:    Sharon Verduzco will arrange for a 16 mm sound projector, 35 mm slide carousel unit and a large screen for the Sales Meeting. All price lists, etc. will be the responsibility of Sharon Verduzco and Mal Kuhn.

