

1980

THIRD PARTY SOFTWARE

CHARLES MANN AND ASSOCIATES  
7594 San Remo Trail  
Yucca Valley, CA 92284  
714-365-9718

SCOTT, FORESMAN & COMPANY  
1900 East Lake Avenue  
Glenview, IL 60025  
312-729-3000 X681

COLOR SOFTWARE  
C/O 99/4 Home Computer Users Group  
P. O. Box 95148  
Oklahoma City, OK 73143  
405-787-8521

99/4 HOME COMPUTER USERS GROUP  
P. O. Box 95148  
Oklahoma City, OK 73143  
405-787-8521

IMAGE PRODUCERS  
(Image Computer Products, Inc.)  
615 Academy Drive  
Northbrook, IL 60062  
312-564-5060

INSTANT SOFTWARE  
Route 101  
Peterborough, NH 03458  
603-924-7296

JEFFWARE  
C/O 99/4 Home Computer Users Group  
P. O. Box 95148  
Oklahoma City, OK 73143  
405-787-8521

MICROCOMPUTERS CORPORATION  
22 Purchase Street  
Rye, NY 10580  
914-967-8370

PEWTERWARE  
C/O 99/4 Home Computer Users Group  
P. O. Box 95148  
Oklahoma City, OK 73143

PROGRAM DESIGN, INC.  
11 Idar Court  
Greenwich, CT 06830  
203-661-8799

# SHOW SPECIAL!

## \$200 CASH REBATE!

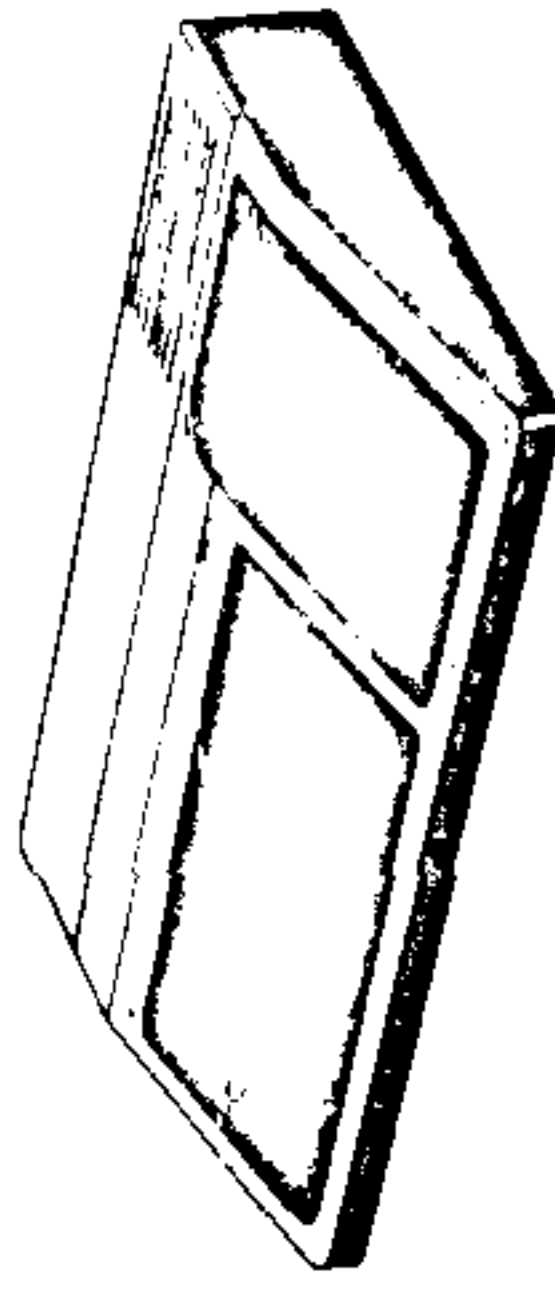
A special limited offer available only to persons attending the Texas Instruments Home Computer Demonstration in the Southern California Area. This rebate offer is only good for purchases of the TI-99/4 within 3 days of date punched out below. *(To qualify for cash rebate offer all coupons can only be punched with one date.)*

**QUALIFICATIONS:** TO QUALIFY FOR THIS CASH REBATE, YOU MUST RETURN THIS COUPON WITH: (1) Sales receipt showing TI-99/4 purchase within 3 days of date punched out below (2) a complete copy of the Owners Information Quesada Signature (packed in computer console box) (3) a listing of the TI-99/4 console serial number located on bottom side of machine 99758

(Write in serial number here)

(4) all rebate coupons must be postmarked within 5 days of date of purchase. Return all of the above qualifications for this cash rebate to: Home Computer Rebate Offer, P.O. Box 1265, Lubbock, Texas 79408. (We recommend that you return this offer by certified mail.)

JUNE 10 11 12 JUNE 24 25 26 JUNE 30 JULY 1 2



**SEND TO:**

Home Computer Rebate Offer  
P.O. Box 1265  
Lubbock, Texas 79408



**Irving J. Levin**  
(Please Print)

P.O. Box 49166

ADDRESS

Los Angeles, Ca 90049

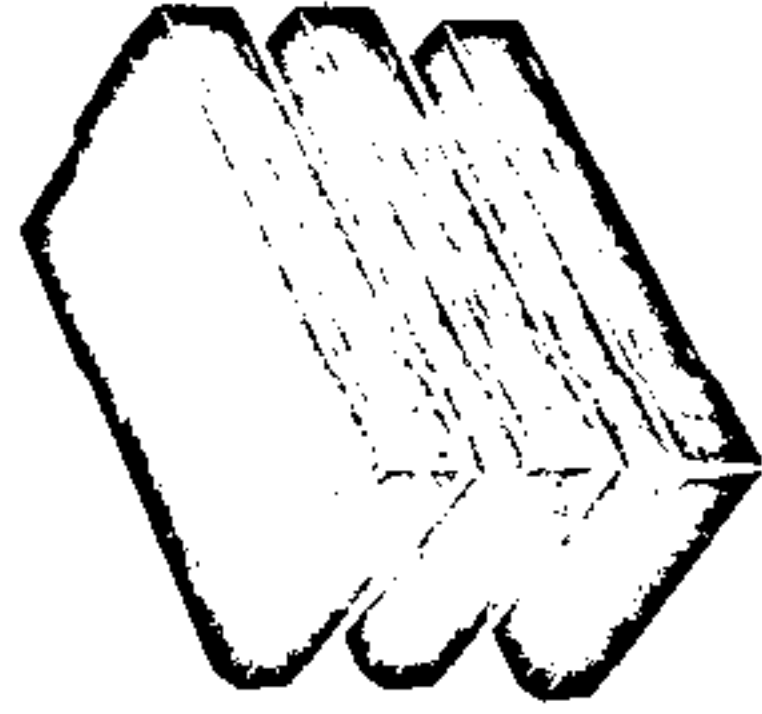
CITY STATE ZIP

Please allow 30 days for delivery. Offer void where prohibited by law. Offer good in U.S. only

# FREE

## Over \$100 worth of TI-99/4 Home Computer Software.

A special offer if you buy within 30 days of this seminar.



Buy a TI-99/4 Home Computer within 30 days of the seminar and you'll be entitled to over \$100 worth of FREE Solid State Software™ Command Modules: Household Budget Management, Football and Early Learning Fun.

I've bought my TI-99/4. Please send my free software.

SEND TO:

Home Computer  
P.O. Box 1265,  
Lubbock, Texas 79408

Los Angeles  
SEMINAR CITY

Irving Levin  
(Please Print)

P.O. Box 49166

ADDRESS

Los Angeles Ca 90049  
CITY STATE ZIP

Use this coupon to obtain your FREE TI-99/4 software.

Offer good only in U.S. Offer void where prohibited by law. Offer good in U.S. only

Texas Instruments will fulfill the offer above when you: (1) return this completed coupon including serial number, and (2) a dated copy of proof of your purchase verifying purchase of a TI-99/4 Home Computer within 30 days of your seminar. Items must be postmarked within this period. To qualify for this special offer

CL 488



# TEXAS INSTRUMENTS INCORPORATED

Dear Seminar Attendee:

Thank you for coming. We hope you found your attendance of genuine value. We would appreciate your sharing with us your opinions and suggestions on the seminar and your reactions to the TI-99/4 Home Computer. Please fill out and return to us the questionnaire below.

## FIRST, ABOUT THE SEMINAR...

- Did you find the seminar informative? (Check one, please)

- Very informative – learned a lot
- Yes – information was adequate
- Somewhat – would have liked more information
- No – learned very little

Comments or suggestions \_\_\_\_\_  
\_\_\_\_\_

- How about content level? Was it:

- About right
- Too technical and detailed
- Too general and superficial

Comments or suggestions: \_\_\_\_\_  
\_\_\_\_\_

- What did you like best about the seminar: \_\_\_\_\_

- What did you like least: \_\_\_\_\_

- Overall comments or suggestions about this seminar: \_\_\_\_\_  
\_\_\_\_\_

## NEXT, YOUR OPINIONS ON THE TI-99/4...

- How likely are you to buy a home computer within the next 12 months:

- Definitely will
- Probably will
- Might or might not
- Definitely/probably not

- If you indicated "Definitely will" or "Probably will" is it likely that you will purchase within:

- The next 6 months?
- The next 3 months?
- The next 4-6 weeks?

- If you indicated that you "definitely/probably will not" buy a home computer within the next 12 months, please indicate the main reasons you feel that way:

Feel the need of  
MOTIVATION

- If you indicated that you "definitely will" or "probably will" buy a home computer within the next 12 months, please indicate the main reasons you feel that way:

See above

(over)

- If you were planning to buy a home computer, which of the following best indicates your feelings about the TI-99/4:
  - The TI-99/4 would be my first choice.
  - The TI-99/4 would be a serious consideration.
  - I was favorably impressed but would reserve judgment until I evaluated alternative systems.
  - The TI-99/4 would not be a consideration. I would buy some other system.
- What is the reason you feel the way you indicated in the previous question?
 

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• Any other comments or suggestions about the TI-99/4 Home Computer or its software or accessories: \_\_\_\_\_

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### FINALLY, A LITTLE INFORMATION ABOUT YOURSELF...

- If you should purchase a home computer, please indicate the age, sex, and principle area of interest of all potential users in your household:

	USER		MAIN AREA OF INTEREST (Check one for each user)			
	Age	Sex	Personal Business	Home Management	Education	Entertainment
1.	<u>42</u>	<u>M</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.	<u>38</u>	<u>F</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	<u>11</u>	<u>F</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4.	<u>9</u>	<u>F</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

- If you attended (or attend) college, which of the following best describes your major field of study:
  - Business
  - Education
  - Engineering
  - Humanities
  - Law
  - Liberal Arts
  - Medicine
  - Science
  - Other
- What is your current occupation: ATTY
- Please check the statement that best describes your previous experience with computer:
  - Worked directly with computers (hands-on experience and some knowledge of computer operation)
  - Worked indirectly with computers (experience with the kinds of information generated by computers but not with actual operation of the machines themselves)
  - Little experience with computers but has general understanding of uses and benefits of computers
  - Little or no experience with computers and little or no understanding of uses and benefits of computers
- About how long have you been considering the purchase of a home computer? 6 months.
- What other brands of computers have you evaluated or seriously considered?
  - Apple
  - Rainie Shuch
  - \_\_\_\_\_
  - \_\_\_\_\_

• Please fill in the following information about yourself:

(please print)

Name Gerald L. Ponce

Address 11550 Zelzack Ave

City/State Granada Hills Zip 91406

Telephone 363-7331

(area code) (213)

- Are you interested in being contacted by a local TI-99/4 dealer for a "hands on" demonstration in his store?
  - Yes
  - No

We are sincerely grateful for your interest, your attendance at our seminar and your assistance with this questionnaire.



**TEXAS INSTRUMENTS**  
INCORPORATED

Author Incentive Program  
M/S 5890, Box 10508  
Lubbock, Texas 79408

Thank you for your interest in Texas Instruments' Author Incentive Program for the TI-99/4 Home Computer.

Enclosed you will find all the information necessary to submit your entry. Please read the instructions carefully and complete all the answers. It is especially important that you sign the submittal agreement.

Good luck!

Sincerely,

Peter L. Bonfield, Manager  
Personal Computer Division

PLB/sjg

Enclosures: as stated.

*Fifty Years  
of  
Innovation*





**TEXAS INSTRUMENTS**  
INCORPORATED

Author Incentive Program  
M/S 5890, Box 10508  
Lubbock, Texas 79408

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Good luck!

Sincerely,

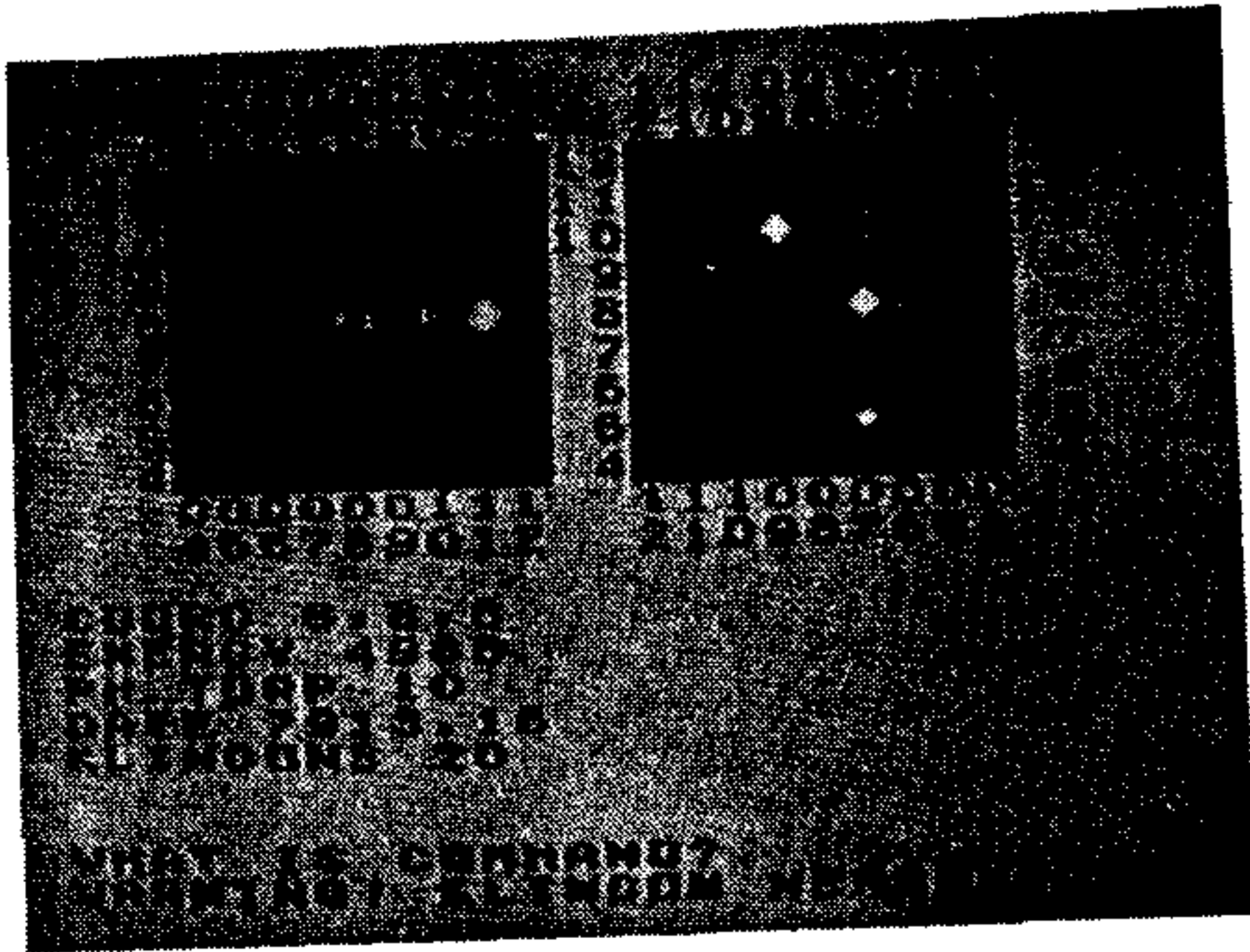
Peter L. Bonfield, Manager  
Personal Computer Division

PLB/sjg

Enclosures: as stated.

*Fifty Years  
of  
Innovation*

PROGRAMS FROM COLOR SOFTWARE



3-D Startrek

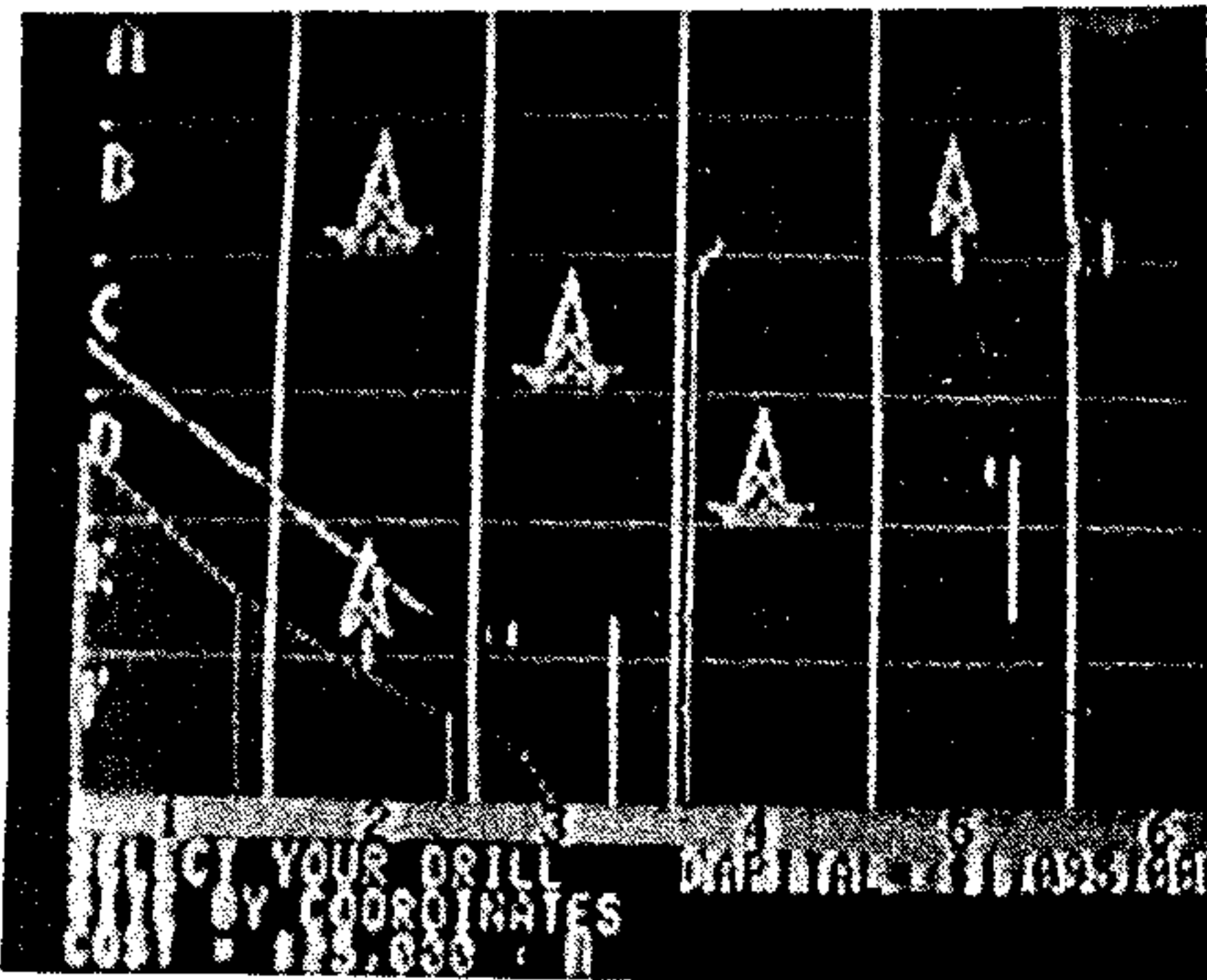
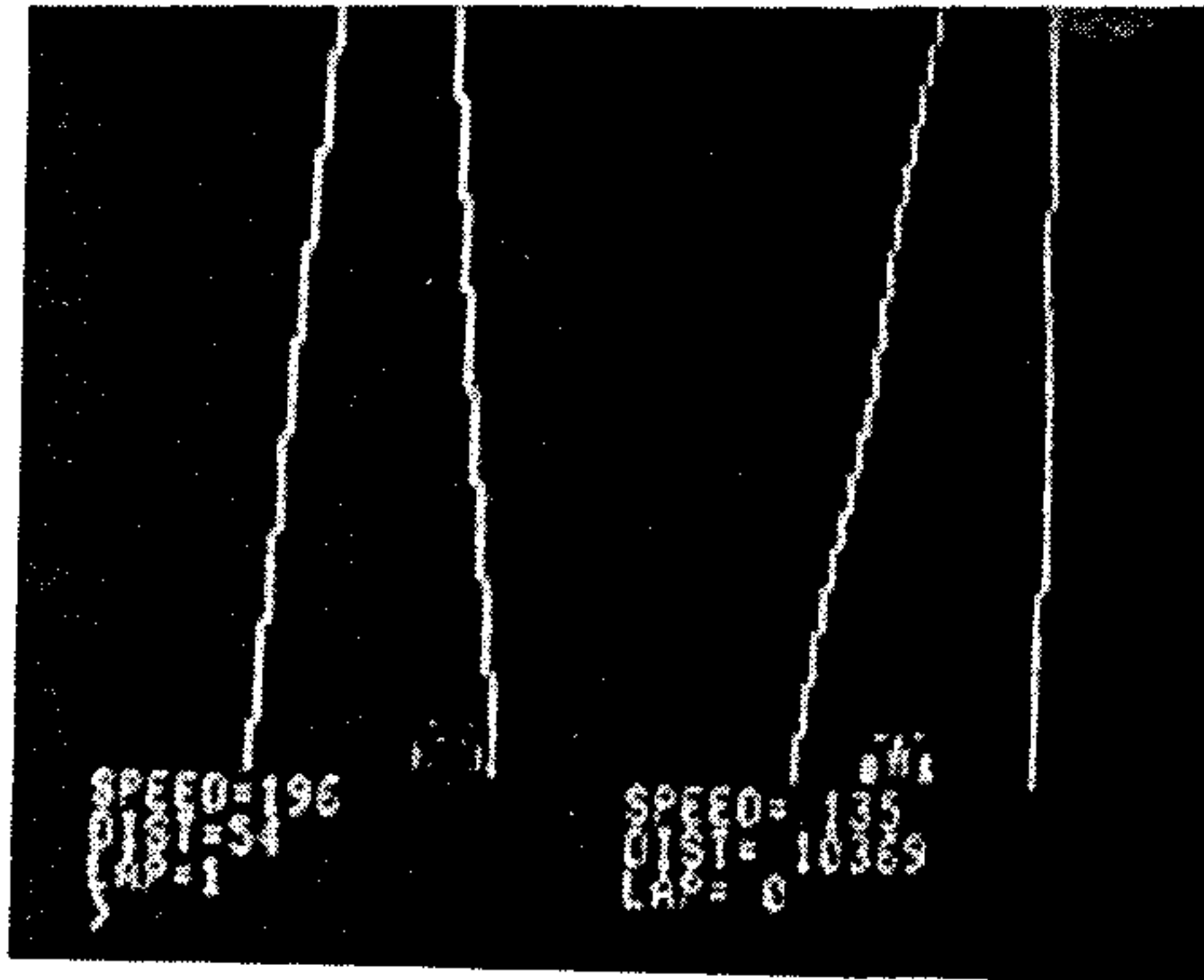
Play the most popular computer game in three dimensions instead of two. Hi-resolution display shows stars and Klingons scaled according to distance from the Enterprise. Discover new planets, destroy Klingons and save the Federation.

for Apple II, 32K RAM; Atari, 16K RAM; and TI 99/4 \$15 on cassette

Roadrace

Real time simulation of road racing. Race around a 2.25 mile course. The driver's view is shown in hi-resolution color. Two players can race against each other, or one player against a computer driven car. Requires Apple game paddles or joysticks.

for Apple II, 16K RAM; Atari 16K RAM. \$15 on cassette



Dry Well:

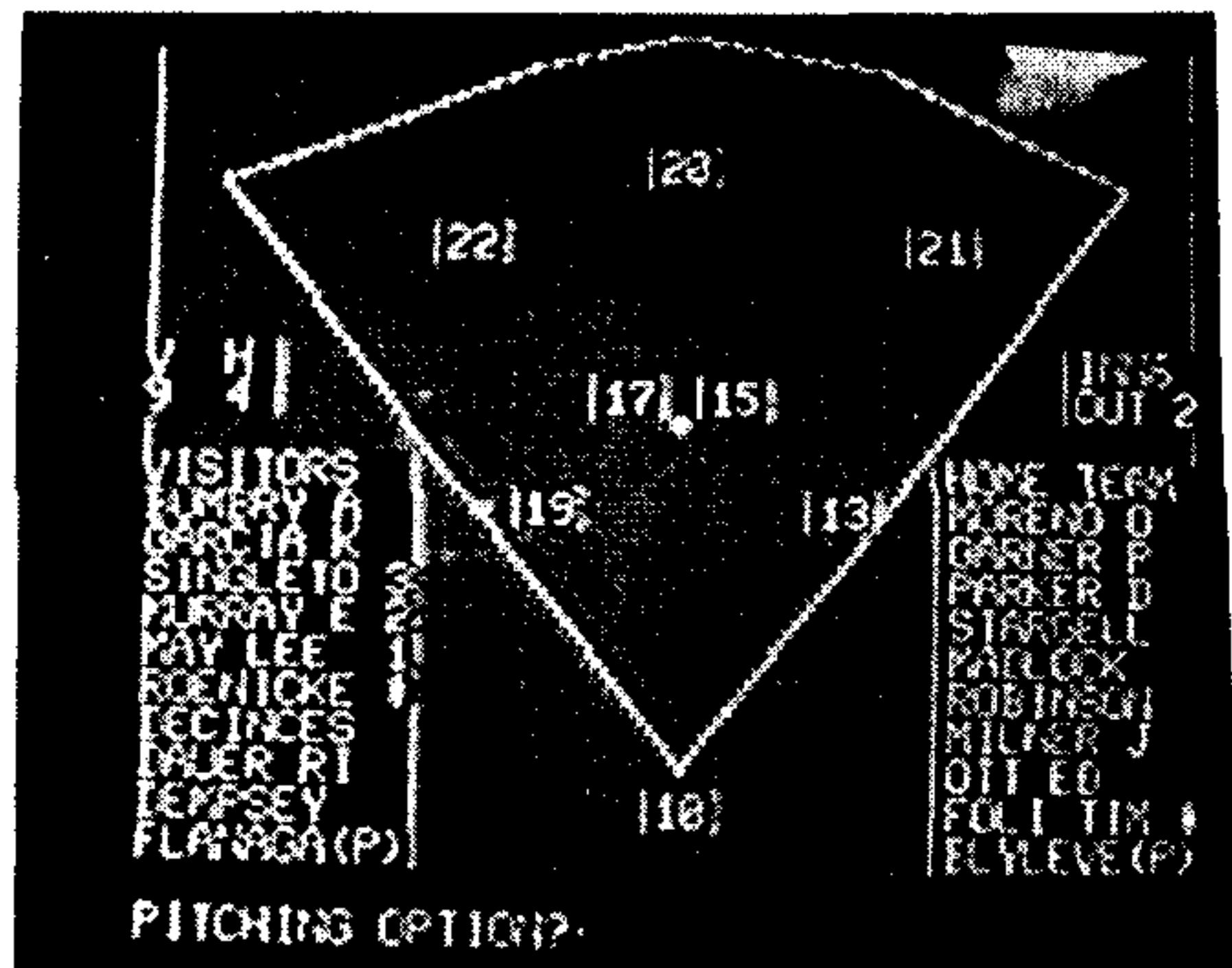
Entertaining strategy game of oil exploration. Discover the pattern of the oil deposits and maximize the profits of your oil-drilling company. Pattern of deposits is different every game.

Apple II, 24K RAM, ROM Applesoft; Atari, 16K RAM; TI 99/4. \$15 on cassette

Major League Baseball:

Strategy game based on real Major League teams. You manage the 1979 teams and make all lineup, hitting, pitching and running decisions. Includes all 26 teams with 25 players per team. Also included are utility programs to make and modify your own teams.

Apple II, 48K RAM, ROM Applesoft, and one disk. \$25 on disk





## CONFIDENTIAL DEALER PRICE LIST

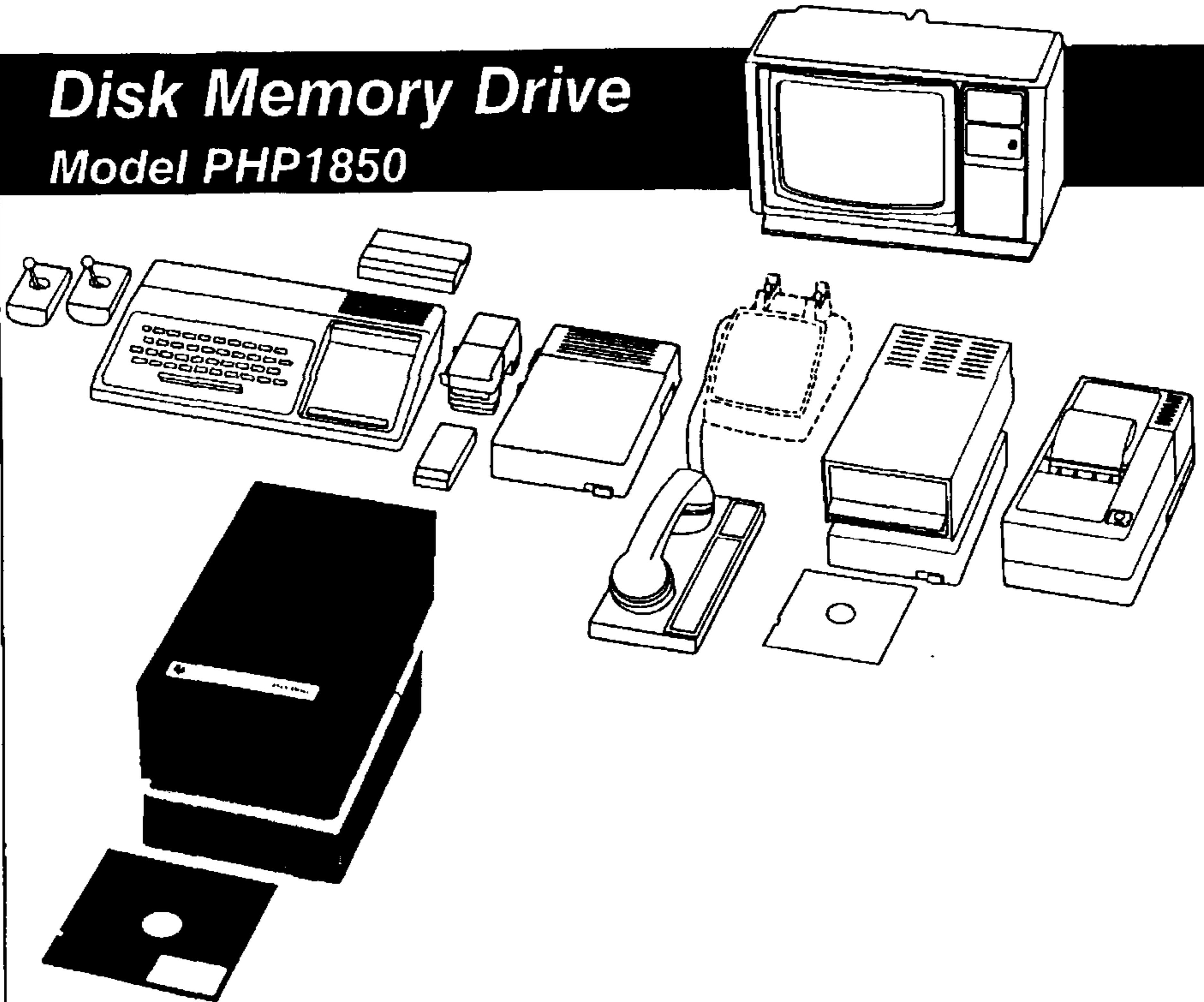
<u>MODEL</u>	<u>NAME</u>	<u>LIST</u>
PHC004M	TI-99/4 Home Computer**	1150.00
PHC004C	Console Separate	950.00
PHA4000	Monitor Separate	450.00
PHA2100	Modulator	75.00
<u>COMMAND MODULES</u>		
PHM3000	Diagnostic	29.95
PHM3001	Demonstration	69.95
PHM3002	Early Learning Fun	29.95
PHM3003	Beginning Grammar	29.95
PHM3004	Number Magic	19.95
PHM3005	Video-Graphs	19.95
PHM3006	Home Financial Decisions	29.95
PHM3007	Household Budget Management	44.95
PHM3008	Video Chess	69.95
PHM3009	Football	29.95
PHM3010	Physical Fitness	29.95
PHM3011	Speech Editor	44.95
PHM3012	Securities Analysis	54.95
PHM3013	Personal Record Keeping	49.95
PHM3014	Statistics	54.95
PHM3015	Early Reading	54.95
PHM3016	Tax Investment Record Keeping	69.95
PHM3017	Terminal Emulator	44.95
PHM3018	Video Games	29.95
PHM3019	Disc Manager	44.95
<u>OPTIONAL ACCESSORIES</u>		
PHA2000	Dual Cassette Cable	14.95
PHP1100	Wired Remote Controllers (pair)	34.95
PHP1500	Speech Synthesizer	149.95
PHA2500	Math Speech Dictionary	29.95
PHP1600	Telephone Coupler Modem	224.95
PHP1700	RS-232 Interface	224.95
PHP1800	Disk Drive Controller	299.95
PHP1850	Disk Memory Drive	499.95
PHP1900	Solid State Printer	399.95
PHD1950	Thermal Paper (2 rolls)	14.95
<u>DOCUMENTATION</u>		
PHA2600	Beginner's Basic	9.95
PHA2601	User's Reference Guide	9.95
<u>EPSON</u>		
TX-80	80 Column Impact Printer	799.00
RS-232	Adaptor	59.95
<u>THE "SOURCE"</u>		
	Single Unit	100.00ea
	Quantities of six	100.00ea

\*\* Limited stock of bundled units available



# Disk Memory Drive

## Model PHP1850



The Texas Instruments Disk Memory Drive is a mini-floppy disk mass storage system with a 1 to 3-disk memory drive capability. Use of the TI Disk Memory Drive requires the TI-99/4 Disk Drive Controller (Model PHP 1800).

The TI-99/4 Home Computer mass memory system is capable of storing up to 90,000 bytes of information on each floppy diskette. Up to 127 files may be defined on each diskette.

Fixed and variable length records can be handled by the Disk Drive Controller, as well as sequential and

relative files. Free disk space is automatically reassigned for user file allocation.

Provided with the controller is a Solid State Software™ Command Module which supplies disk utilities including disk and file maintenance commands. The command module is preprogrammed and greatly simplifies use of the Disk Memory Drive and Disk Drive Controller with the TI-99/4 Home Computer.

Availability of the Disk Memory Drive and Disk Drive Controller is first half 1980.

### Preliminary Information

Texas Instruments reserves the right to make changes in materials and specifications without notice.

**TEXAS INSTRUMENTS  
HOME COMPUTER  
ACCESSORY**

**DISK MEMORY DRIVE  
MODEL PHP1850**

**WARRANTY INFORMATION**

**COPYRIGHT © 1980, TEXAS INSTRUMENTS INCORPORATED**



# 99/4 HOME COMPUTER USERS-GROUP

August 12, 1980  
Oklahoma City, Oklahoma

Dear Home Computer Owner:

This is to inform you, of the formation of the first nation-wide 99/4 Home Computer Users-Group. Our main purpose is to promote the exchange of programs; either written in or translated into T. I. BASIC. We also plan to offer other products and services, such as technical and programing assistance. All of our products and services will be offered to you at the lowest possible cost.

As a Users-Group we are not affiliated with Texas Instruments, Inc., and act as a seperate entity in our products and service offerings.

There are no dues or other fees to pay. Simply fill out the enclosed card and return it to us. We will then, by return mail send you a list of what programs and services we are offering for that month.

We currently have a collection of some unique programs, written in T. I. Basic for immediate delivery. These programs include Games, Musical scores, Graphics, Finances, and other interesting subjects. Most of these programs are simple and easy to understand, and will help in understanding many programing techniques; as well as adding many hours of enjoyment to the use of your 99/4 Home Computer.

For more information you need only to return the reply card. Please be sure to state whether you use a disk drive or tape recorder, and what your programing interests are.

Sincerely,

Charles La Fara  
President  
99/4 USERS-GROUP

T.I., T.I. Basic and Texas Instruments are all registered trademarks of Texas Instruments, Inc.

**International  
99/4  
Users-Group**



P.O. Box 95148  
Oklahoma City, OK 73143  
(405) 787-8521

Welcome to the membership of the International 99/4 Users-Group.

The International 99/4 Users-Group consists of over 8000 owners of the 99/4 in the United States and 22 other countries. Our intent is to promote usage of the 99/4 personal computer in home, educational, and business environments through methods of user involvement and sharing.

Services provided by the International 99/4 Users-Group include:

- \* Software Exchange Program & Catalog
- \* Informative Newsletter
- \* Discount Prices on Hardware and Software products
- \* Information and Assistance Service
- \* New Product Announcements

We also offer a full time office staff that is willing to help users with any problems concerning the 99/4 or products or services we offer.

There are no dues or fees for membership in our organization as we are self supportive. Operational funds are generated solely by our members purchases of Texas Instruments and Third Party software and hardware products.

We are happy that you now belong to our select group of innovative individuals and hope that we can be of service to you. Our office hours are from 9am to 5pm weekdays and if you feel that we can assist you in any way please let us know.

A handwritten signature in cursive script, appearing to read 'Charlie La Fara'.

Charlie La Fara  
President



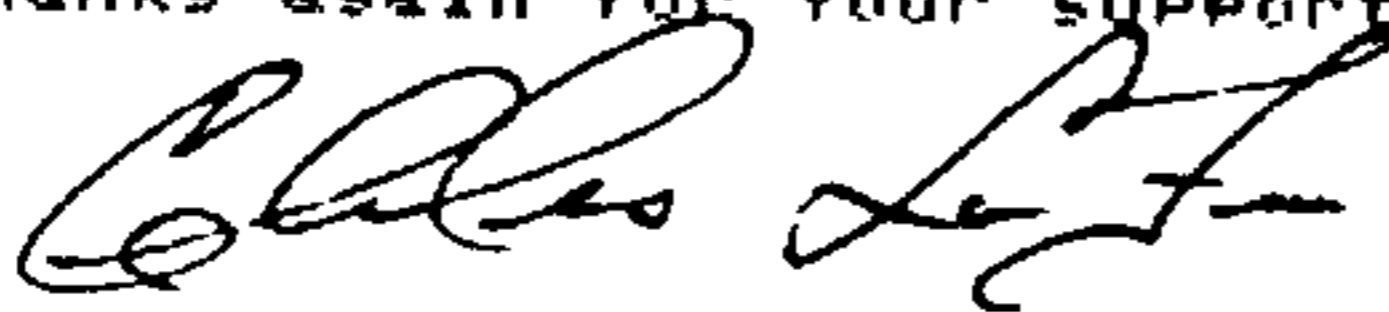
# 99/4 HOME COMPUTER USERS-GROUP

Dear fellow 99/4 Owner

We would like to take this opportunity to tell you a little about us here at the Users-Group and what our plans are. First let me tell you that the Users-Group was started out of pure frustration due to the fact that there was so little software available for the 99/4. After countless hours on the phone with Texas Instruments in Lubbock, and after 2 trips to their plant I saw that the only way any consumer could have the type of software they wanted was to either pay someone to program for them or contact other users around the country for an exchange program. As a novice to the computer, I was lucky to find several other 99/4 owners that had some computer experience and I was able to acquire a few programs. I then asked T.I. if they had any plans to start a group for their users and their answer was no. As the owner of a small meat processing plant here in Oklahoma City, I had no idea as to how to start. After several more hours on the phone with T.I. and their legal staff they agreed to sell us their mailing list of 1646 users around the country. I am proud to say that we have now heard from over 1500 of you. I must repeat again that we are not affiliated with T.I. in any way however their support is much better now than it has ever been. We are dedicated to 99/4 owners and only with your support can we survive. We need your programming efforts no matter what they are. Someone somewhere needs the type of programs you are writing no matter how simple or complex someone can use it. There is a tremendous amount of work involved in running the Users-Group and our only means of support is you.

We would like to thank the many of you who have submitted your programs to us and hope that all of you will continue to support us. Any suggestions that you may have in services we could provide, please let us know. We will try to keep you informed on all developments of 99/4 hardware and software as quickly as we can.

Thanks again for your support.



Charles LaFara  
President  
99/4 Home Computer Users-Group Inc

# 99/4 HOME COMPUTER USERS-GROUP

Thanks for your inquiry regarding the 99/4 Users-Group. The main purpose of the Users-Group is to set up an exchange method for owner-user written or translated programs. We currently have several owner-user written programs in our catalog which will help many of you better understand how programing in T.I. Basic works. Other programs will help the more experienced programmer in understanding different programing techniques that are used in T.I. Basic. We are asking any of you who have written or translated programs into T.I. Basic to submit them to us so we may share them with other users around the Country. As an incentive for you to do so, we will allow you to pick any two (2) programs from our monthly catalog at no cost. Plus, we will also include a fantastic Basic game program written by Mr. Tom Krohn, which will bring many hours of enjoyment to the use of your 99/4.

All programs submitted remain the property of the author, and the Users-Group excepts no responsibility for their contents. (all tapes and disks submitted will be returned to the original owners.)

In an effort to cover our cost of compiling, printing, mailing and duplicating, we must charge a \$2.50 fee for each program ordered from our monthly catalog of programs. This charge is for our services only. As most owner-user written programs have no documentation, we will offer hard copies (program listings) of programs at .75 per copy. These can also be used by those of you that prefer to type in your own listings. There is also a \$10.00 minimum on all program orders for either cassette tape or floppy disk. This means that you should order at least four (4) programs per order to cover the minimum charge.

For those of you who are more experienced programmers, we will be offering a program by which you may market your programing efforts either through the Users-Group or via other retail outlets. Should you wish additional information on this program, please contact us here at the group office.

We are currently working with T.I. and other third party hardware and software suppliers in an effort to offer their products to you at a discounted rate. Each month we will print a catalog for 99/4 owners divided into the following four categories:

1. Owner-User written programs
2. T.I. Hardware & Software
3. Third party Hardware & Software
4. Software Wanted by owners

# BYTE News . .

**INTEL 32-BIT MICROPROCESSOR RUMORED:** As reported in this column last April, Intel was rumored to be working on a 32-bit microprocessor. The project is moving closer to reality as Intel has assigned a part number to the device. It will be called the 8800 (not to be confused with the Altair 8800 computer). The instruction set will not be compatible with Intel's 8-bit or 16-bit microprocessors. The device will be housed in the new 64-pin QUIP (quad-in-line package, see "BYTE News," June 1979) which is cheaper, smaller, and easier to test than dual-in-line packages. The 8800 is reportedly being developed at Intel's facility in Aloha OR. The first test prototypes are reported to have been produced.

**TI RF MODULATOR FCC WAIVER GRANTED:** The Federal Communications Commission (FCC) has granted Texas Instruments a waiver which permits TI to connect its personal computers to home color television receivers using a radio frequency (RF) modulator. TI originally petitioned the FCC for approval of the RF modulator system in February 1979. The petition was rejected since the regulations required that the complete system be submitted for approval. TI submitted only the RF modulator for approval. Subsequently, Texas Instruments applied for a waiver, provided that the modulator unit met the standards.

The FCC asked other personal computer system manufacturers to comment on the TI request. Radio Shack, Apple Computer, Commodore, Mattel, and Atari responded negatively to the request. Apple, Atari, and Mattel went to great expense to comply with the FCC regulations. The Radio Shack and Commodore systems, which contain integral displays and do not use RF modulators, do not come under the FCC regulations.

The FCC decision further waives testing by the FCC and merely requires that the manufacturer provide the FCC with test results showing compliance. In a related action, the FCC relaxed the standards on RF interference generated by commercial and personal computer systems.

Several personal computer manufacturers that compete with TI have already stated that this waiver will give TI a competitive advantage. Furthermore, several firms publicly questioned the FCC's rule-making methods in making its decision. The likelihood now is that the other personal computer makers will offer systems with RF modulators. It will probably take these manufacturers at least a year to bring out such competing systems.

**ULTRA MINI-FLOPPY DRIVE INTRODUCED:** Sanyko Seiki Manufacturing Co, Tokyo, Japan, has begun producing samples of an ultra-small floppy disk drive and controller. Called the FMC-100, it uses a 2-inch floppy disk that stores 8 K bytes on one track. It is intended for use in word-processing typewriters and personal computer systems.

**THWARTING COMPUTER SOFTWARE PIRATING:** A patent (number 4,168,396) has been issued to Robert M Best, Seattle WA, for a "microprocessor which prevents the piracy of computer programs." The device reportedly uses cryptography to protect the software. It is called a *crypto-microprocessor* and stores software in cipher to prevent it from being copied, disassembled, or altered by unauthorized processes. Authorized users can decipher the software with special encryption keys. The patent states that the device is intended primarily for use in personal computer systems.

**AC LINE TO TTL INTERFACE IC INTRODUCED:** General Instrument Optoelectronics of Palo Alto CA has introduced a low-cost, 8-pin integrated circuit that can be used to directly monitor AC power line circuits and provide transistor-transistor logic (TTL) outputs. The device, therefore, can be used to interface your microprocessor inputs easily and directly to monitor AC power-line-operated devices such as motors, solenoids, relay contacts, and the like. It can also be used to detect power failure and other such applications.

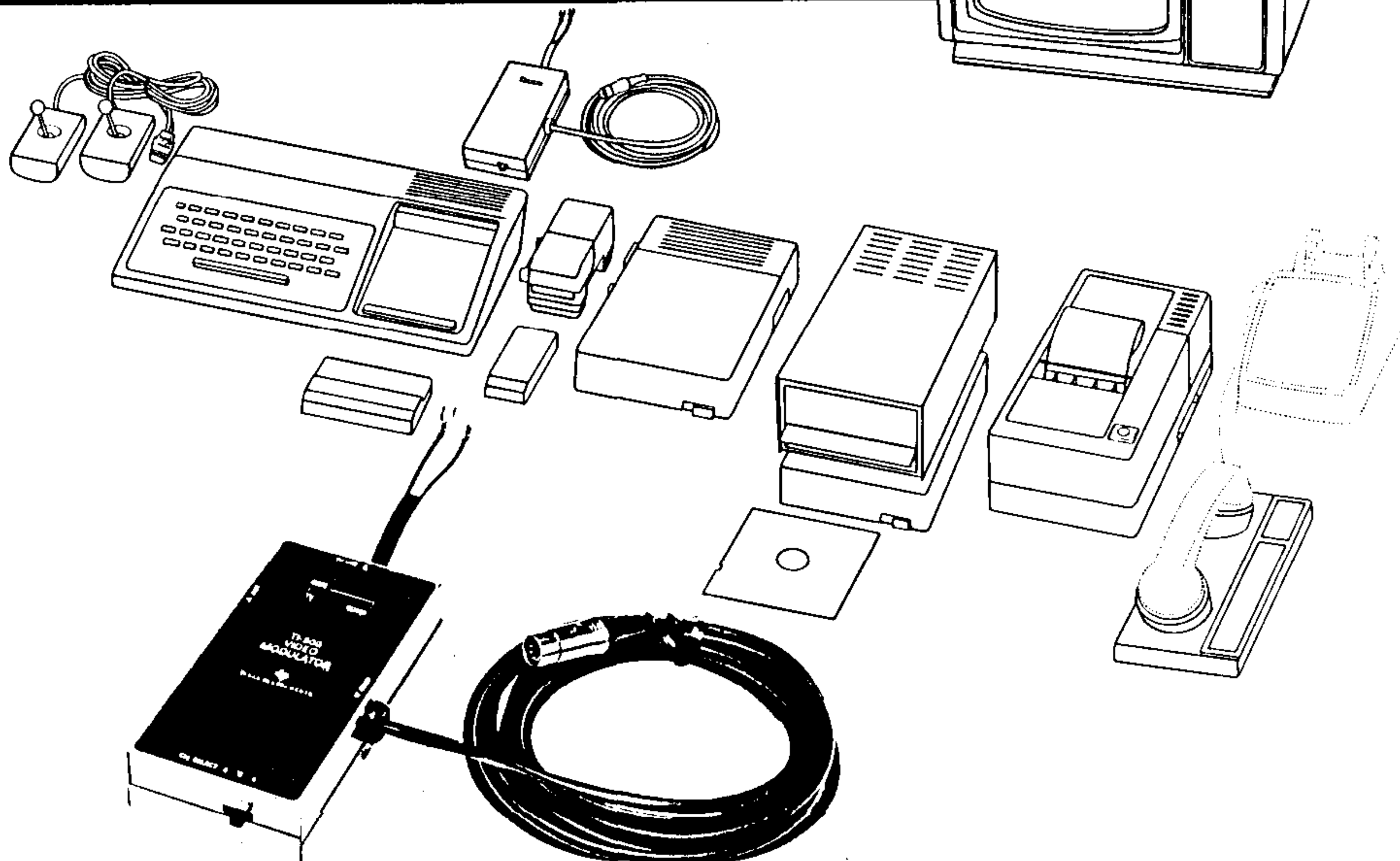
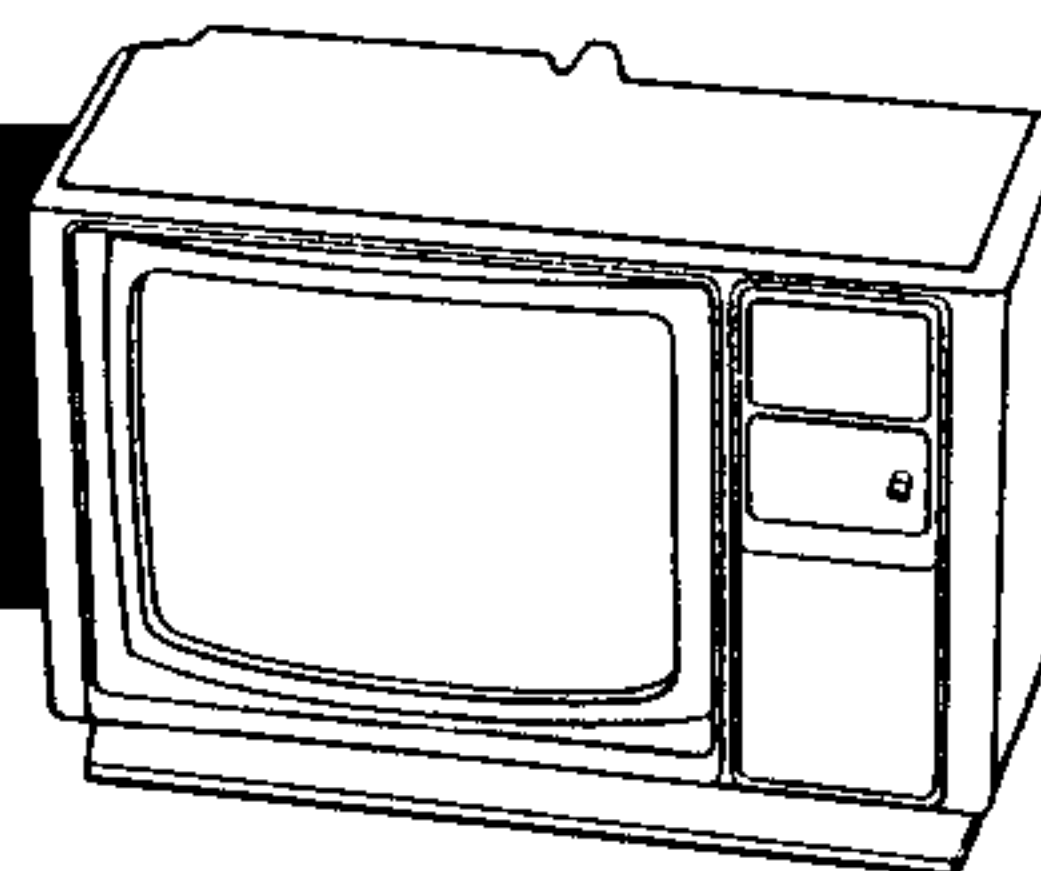
**FLAT PANEL TERMINAL DISPLAYS BECOMING AVAILABLE:** Computer terminals using flat-screen video displays are getting close to the marketplace. The technology is based on the plasma panel developed by Owens-Illinois, Toledo OH, in the late 1960s. Currently, Interstate Electronics of Anaheim CA, IBM, and Fujitsu have these panels in production. Control Data and NCR are planning large-scale production. IBM now makes approximately 100,000 plasma panels annually, which

Texas Instruments  
TI-99/ Home Computer Accessory



# TI-900 Video Modulator

## Model PHA2100



The Texas Instruments TI-900 Video Modulator is a home TV set adapter. It is designed to permit use of a conventional home TV with the Texas Instruments Home Computer. With this unit your own television set (any color or black and white set) can be used as a computer display.

The Video Modulator has a channel select switch for channels 3 and 4. If there is a television station broadcasting on one of these channels in your area, simply select the other channel on the Video Modulator. A computer/television switch allows dual use of your television without disconnecting the Video Modulator.

#### Limited Warranty

The Texas Instruments TI-900 Video Modulator is covered by a 90-day limited warranty against defects in materials and workmanship. See the owner's manual for complete warranty text.

Texas Instruments reserves the right to make changes in materials and specifications without notice.

**NOTICE:** The TI-900 Video Modulator is being offered for sale under a waiver granted to TI by the FCC, and may only be used with FCC certified Video Source.

#### Specifications

- Weight:** .3685 kg. (13 oz).
- Dimensions:** 8.25 cm x 15.24 cm x 3.49 cm (3¼ x 6 x 1¾ in).
- Cables:** 300 ohm twin-lead — 15.24 cm (6 inches).  
Video/power cable — 3.66 m (12 feet).
- Electrical:** **Input:** (All units supplied by computer console)
- POWER — 12VDC at 0.05 Amps maximum.
  - AUDIO — 1 Vp-p (nominal for 100% modulation), AC coupled, 10K ohms minimum impedance.
  - VIDEO — 1 Vp-p (nominal, sync negative and white peaks positive), AC coupled, 75 ohms impedance.
- Output:**
- IMPEDANCE — 300 ohms.
  - FREQUENCIES — Channel 3, 61.25 MHz (nominal).  
Channel 4, 67.65 MHz (nominal).
  - SOUND SUBCARRIER — 4.5 MHz (nominal).

**TEXAS INSTRUMENTS**  
INCORPORATED



# tam's

## 99-4 HOME COMPUTER

MODEL	NAME	TAM'S	LIST
PHC004M	99/4 Home Computer (console & monitor)	999.95	1400.00
PHC004C	99/4 Console Only	699.95	950.00
PHC4000	99/4 13" Color Monitor Only	399.95	450.00

### COMMAND MODULES

PHM3000	Diagnostic	29.95	29.95
PHM3001	Demonstration	69.95	69.95
PHM3002	Early Learning Fun	29.95	29.95
PHM3003	Beginning Grammer	29.95	29.95
PHM3004	Number Magic	19.95	19.95
PHM3005	Video-Graphs	19.95	19.95
PHM3006	Home Financial Decisions	29.95	29.95
PHM3007	Household Budget Management	44.95	44.95
PHM3008	Video Chess	69.95	69.95
PHM3009	Football	29.95	29.95
PHM3010	Physical Fitness	29.95	29.95
PHM3011	Speech Editor	44.95	44.95
PHM3012	Securities Analysis	54.95	54.95
PHM3013	Personal Record Keeping	49.95	49.95
PHM3014	Statistics	54.95	54.95
PHM3015	Early Reading	54.95	54.95
PHM3016	Tax/Investment Record Keeping	69.95	69.95
PHM3017	Terminal Emulator	44.95	44.95
PHM3018	Video Games	29.95	29.95
PHM3019	Disk Manager*	49.95	49.95

### MILTON BRADLEY GAMEVISION CARTRIDGES

4964	ZeroZap	24.95	29.95
4965	Connect Four	24.95	29.95
4966	Hangman	24.95	29.95
4967	Yahtzee	24.95	29.95

### OPTIONAL ACCESSORIES

PHA2000	Dual Cassette Cable	14.95	14.95
PHP1100	Wired Remote Controllers (Joysticks)	34.95	34.95
PHP1500	Solid State Speech Synthesizer	134.95	149.95
PHA2500	Plug-in Math Speech Module	29.95	29.95
PHP1600	Telephone Coupler Modem	202.95	224.95
PHP1700	RS-232 Accessories Interface	202.95	224.95
PHP1800	Disk Drive Controller	269.95	299.95
PHP1850	Disk Memory Drive	449.95	499.95
PHP1900	Solid State Printer	359.95	399.95
PHA2100	R.F. Modulator	67.50	75.00
PHA1950	Thermal Paper (2 pack)	12.95	12.95

JUNE 1980

\*One Disk Manager Module is packed  
with each Disk Controller.



<u>MODEL</u>	<u>NAME</u>	<u>TAM'S</u>	<u>LIST</u>
PHC004M	99/4 Home Computer.....	999.95	1150.00
PHC004C	99/4 Home Computer Console	749.95	950.00
PHA4000	13" Color Monitor.....	399.95	450.00
<u>COMMAND MODULES</u>			
PHM3000	Diagnostic.....	29.95	29.95
PHM3001	Demonstration	69.95	69.95
PHM3002	Early Learning Fun.....	29.95	29.95
PHM3003	Beginning Grammer	29.95	29.95
PHM3004	Number Magic.....	19.95	19.95
PHM3005	Video-Graphs	19.95	19.95
PHM3006	Home Financial Decisions.....	29.95	29.95
PHM3007	Household Budget Management	44.95	44.95
PHM3008	Video Chess.....	69.95	69.95
PHM3009	Football	29.95	29.95
PHM3010	Physical Fitness.....	29.95	29.95
PHM3011	Speech Editor	44.95	44.95
PHM3012	Securities Analysis.....	54.95	54.95
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PHM3014	Statistics.....	54.95	54.95
PHM3015	Early Reading	54.95	54.95
PHM3016	Tax/Investment Record Keeping.....	69.95	69.95
PHM3017	Terminal Emulator	44.95	44.95
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PHA2100	R.F. Modulator	67.50	75.00
PHA1950	Thermal Paper (2 pack).....	12.95	12.95

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\*One Disk Manager Module is packed with each Disk Controller.

# 99/4 HOME COMPUTER

**TAM'S**  
 9310 Reseda Blvd.  
 Northridge, CA 91324

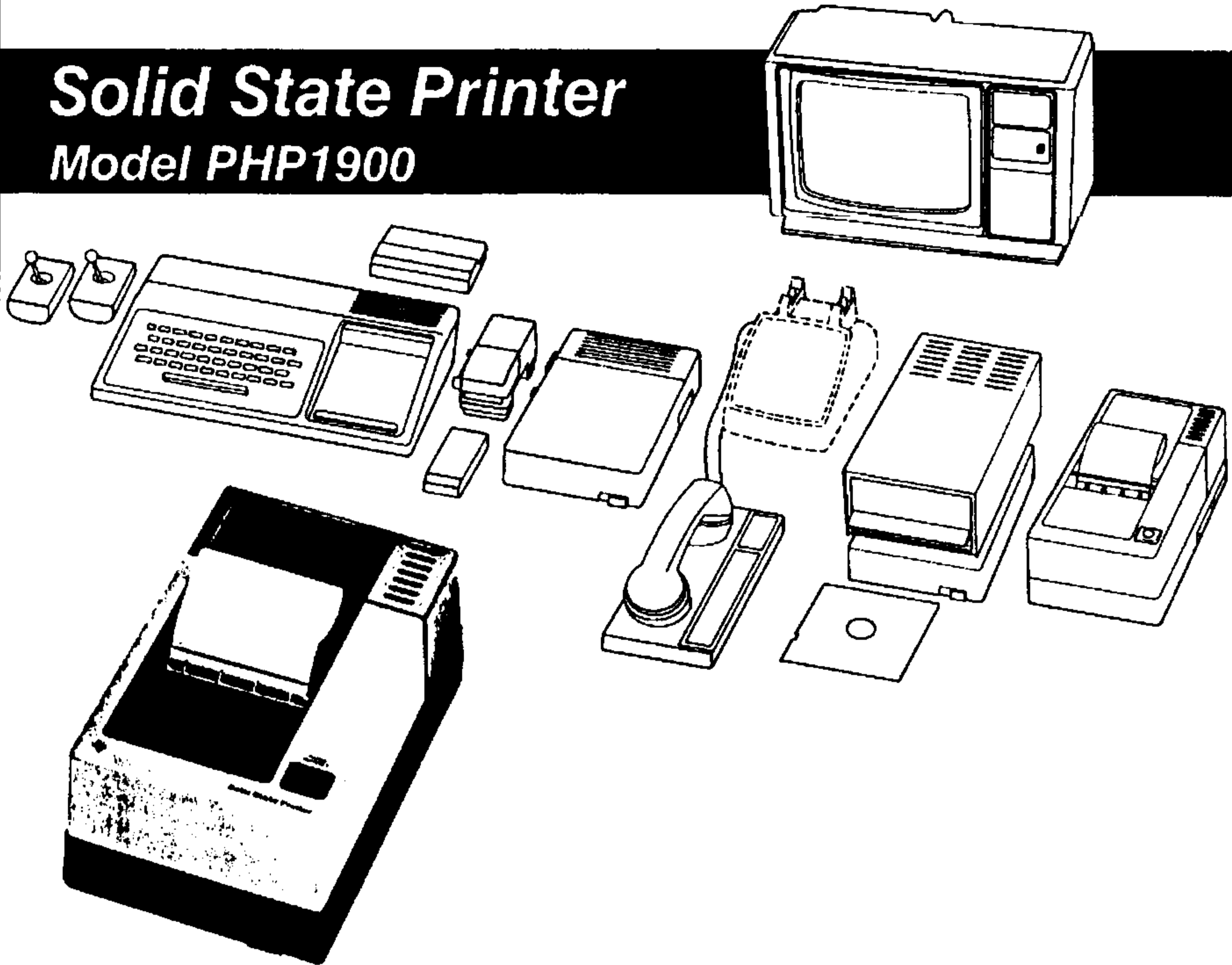
CL481A

**Texas Instruments**  
**TI-99/4 Home Computer Accessory**



# **Solid State Printer**

## **Model PHP1900**



The Texas Instruments Solid State Printer permits printing of data in a 32-column, 5 x 7 dot-matrix character format at a speed of 30 characters per second. It is controlled from TI BASIC for printing results and can list programs from the computer memory. Spacing between lines can be varied under program control, and special characters using the 5 x 7 matrix format may be defined in user programs.

The TI Solid State Printer prints hard-copy listings of programs and data in either of two character sets, and the set used for printout is software selectable from TI BASIC. In addition to standard letters and numbers, the

printer has 32 pre-defined graphic symbols for printing charts and graphs.

Printing is done on 3.5 inch thermally sensitive paper, the same used for some of TI's printing commercial calculators. The Solid State Printer measures 10.2 x 6.75 x 5.5 inches.

Use of thermal printer technology greatly reduces the number of moving parts in the unit making it quieter and more reliable than impact type printers.

Availability of the new TI Solid State Printer is the first quarter of 1980.

TEXAS INSTRUMENTS 99/4 USERS GROUPS

NATIONAL USER GROUP:

99/4 Home Computer Users Group, Inc.\*  
Charles Lafara  
P. O. Box 95148  
Oklahoma City, OK 73143  
405-787-8521

T.I. PROG.  
HOT LINE

1-800-858-4565

LOCAL USER GROUPS:

Houston Users Group  
Raymond Wells  
8922 Roos Road           Phone: 713-871-8000 X4517  
Houston, TX 77036       Phone: 713-771-3483 (home)

R. Riley  
111 Temple Ave.  
Donora, PA 15033  
412-379-5976

J. Nard  
1615 Darlington Road  
Pittsburgh, PA 15217  
412-421-7796

Bill Whitmore  
P. O. Box 267  
Leesburg, VA 22075  
703-777-2017

J. Nichols  
1312 Sara Drive  
Silver Springs, MD 20904  
301-622-2396

Pacific Northwest 99/4 Users Group  
Gary Kaplan  
P. O. Box 5537  
Eugene, OR 97405  
503-485-8796 (work)

99/4 Users - Cincinnati, OH  
Larry Morrow  
8075 Spring Garden Court  
West Chester, OH 45069  
513-777-7042

\*This organization offers a software exchange and a newsletter.





## User's Newsletter

### Announcing Texas Instruments Author Incentive Program... win up to \$3,000.

Texas Instruments is looking for innovative, quality application programs. To make it worth your while, we've created an Author Incentive Program which will be announced in the September issue of several computer magazines. However, as a preferred customer, we are giving you advance notice of the Program.

The award for the top program will be \$3,000, with five \$1,000 awards and twenty \$500 awards. All winners will be recognized with national publicity. Even if you don't receive one of these monetary awards, we may see enough market potential for your program to help you develop it and sell it.

We want programs that offer real utility and lasting value. Programs that are self-teaching, that communicate clearly and directly. TI is interested in education, personal finance, technical, and managerial programs, as well as home management, hobby, and simulation programs. We prefer that your entries exclude entertainment packages.

Your entry can be a program you've created for use on the TI-99/4 or other microcomputers—in any high-level language, from Pascal and BASIC to COBOL or FORTRAN—or even assembly language. You can use up to 48K RAM.

Keep in mind that programs for the TI Home Computer can incorporate high-quality color graphics, music and sound effects, and TI's remarkably human synthesized speech.

An official entry form must accompany each program you submit. To request your entry submission form, call toll-free 1-800-858-4565 (in Texas call 1-800-692-4279) between 8 a.m. and 4:30 p.m. CDT, Monday through Friday. We'll send you full details about the Author Incentive Program along with the form. Please don't send anything until you receive and fill out the entry form.

Programs must be in by November 15, 1980 — so get your entry form soon.

Offer void where prohibited by law. Author Incentive Program not open to TI employees, TI consultants and contractors or their families.

### Peripherals expand computer's capabilities.

To enhance the effectiveness of your Home Computer, TI offers eight accessories for your TI-99/4. The accessories are easy to connect and use.

**Solid State Speech™ Synthesizer:** The Speech Synthesizer brings the exciting element of speech to your computer without tapes or recordings. It reproduces the human voice electronically, using the same technology as in TI's Speak & Spell™ learning aid. It does require a Command Module programmed for speech, such as the Speech Editor Command Module. The Speech Synthesizer contains a vocabulary of over 300 words stored on chips.

**TI Disk Memory System:** The Disk Memory System is a mini-floppy disk mass storage system consisting of the TI Disk Drive Controller and one to three Disk Memory Drives (sold separately). The Disk Memory System can store up to 90,000 bytes of information on each floppy diskette, and up to 127 files may be defined on every diskette. Fixed- and variable-length records and sequential and relative files can all be handled by the Disk Drive Controller. Free disk space is automatically re-assigned for user file allocation. The Disk Manager *Solid* (See PERIPHERALS, page 2)