



commodore

VIC 20

**IN MORE HOMES
THAN ANY OTHER
HOME COMPUTER**

The Commodore VIC 20 is designed to meet your personal computing needs *and* to fit your budget. Plus . . . it has more exciting features than other home computer *and* it's more expandable!

It all adds up to this—the VIC 20 is more affordable and gives you more for your money than any other reasonably-priced computer!

A system that plays and works better. Just take a look at the VIC 20's video games. You can't buy a better game machine than the VIC 20. And you can't get a game machine that offers *the computing power* the VIC 20 gives you.

Here are just a few outstanding features that are standard with the VIC 20:

- 5K RAM expandable up to 32K
- RS232C interface capability
- 8 border colors, and 16 screen colors
- 4 tone generators, covering 5 octaves including a "white noise" generator for sound effects
- 22 characters wide by 23 lines deep screen display
- 64 ASCII character set, upper and lower case alphabet, numerics, and business/calculation symbols
- Full PET-type graphics character set generated directly from keyboard
- High resolution graphics capability
- 4 programmable function keys
- Automatic repeat on space bar, insert, delete, and cursor control keys (other keys can be programmed to repeat)

And there's more, too!

There are *so many* great things about the VIC 20. So many reasons why it's the *right* personal computer for you. Just consider the following:

**SO EASY TO USE—
THE FRIENDLIEST
COMPUTER AROUND!**

It takes more than superior power and top performance to make a great personal computer. The machine has to be easy to use, as well. And the VIC 20 leads the way here, too.

It'll be a snap for you and every member of your family to make friends *fast* with the VIC 20. With its simple and straightforward commands and functions, you'll begin enjoying the VIC 20 the very first time you use it!

So sit down and try the VIC 20! You'll find out that this is really a machine designed for people. No other personal computer is easier to use than the VIC 20!

LOTS OF SOFTWARE!

No matter what your needs, the VIC 20 offers an outstanding array of ready-to-use software for literally hundreds of applications. For personal finance, home study . . . games, too. And more is being developed every day.

Commodore's educational programs cover subjects ranging from elementary topics to highly advanced areas of study. Business software includes word processing and financial planning. And the video games are the most exciting, most challenging available today!

Handling your custom computer needs is no problem, either. With the VIC 20, you'll find it's easy and fun to create your own programs.

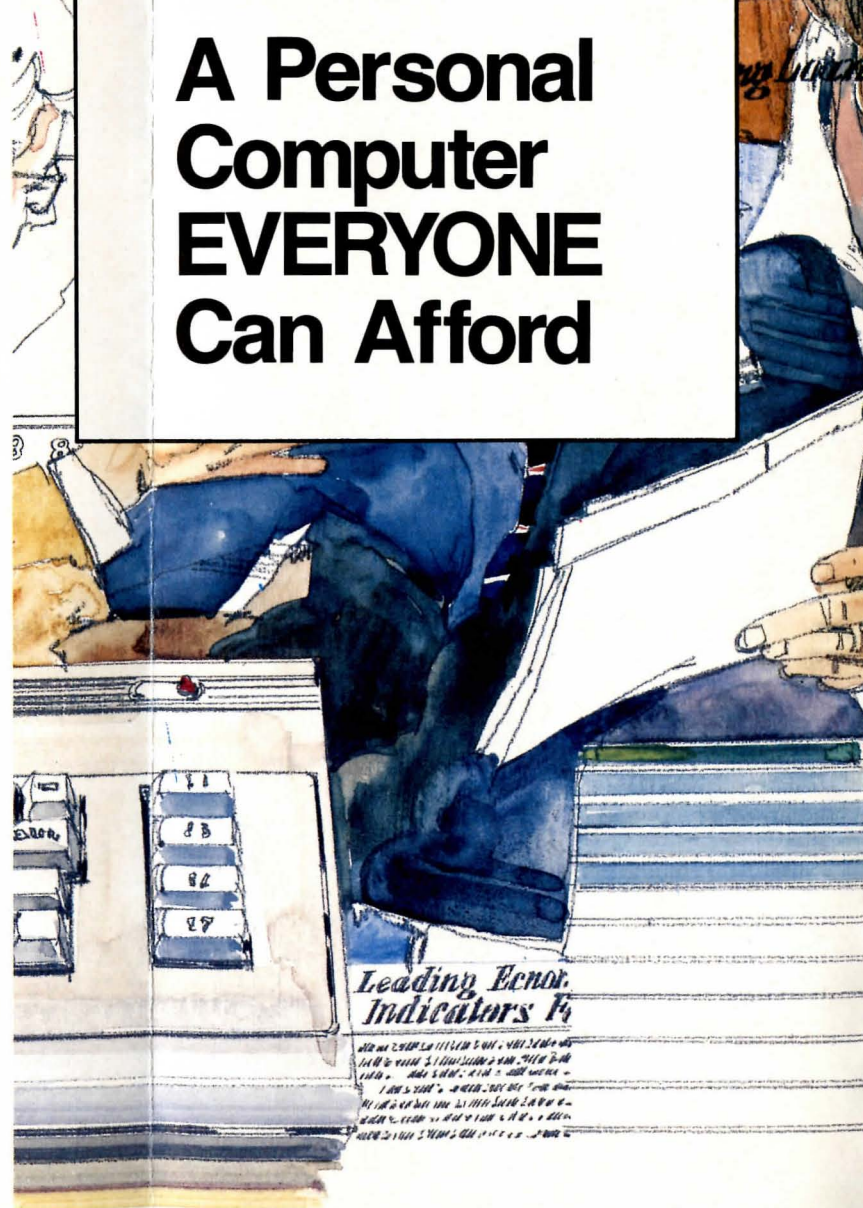
**DISCOVER IT FOR
YOURSELF!**

We've told you a few things about the Commodore VIC 20 . . . But don't take our word for it! Try the Commodore VIC 20 yourself! And see why it's changing the home computer industry and why it's in more homes than any other home computer today...

**IT'S
RIGHT
FOR YOU!**

commodore VIC20

A Personal Computer EVERYONE Can Afford





COMMODORE VIC 20 COMPARISON CHART

FEATURES	VIC 20	TI 99/4A	ATARI 400
Keyboard:			
Typewriter Keys	YES	YES	NO
Typewriter "feel"	YES	NO	NO
Color Control Keys	YES	NO	NO
Graphics on Keys	YES	NO	NO
Reverse Letters	YES	NO	YES
Programmable Function Keys	YES	NO	NO
Works with TV or Monitor	YES	YES	NO
True Lower Case Letters	YES	NO	YES
BASIC Language:			
Extended BASIC	YES	EXTRA	EXTRA
String Arrays	YES	NO	NO
Integer variables	YES	NO	YES
Unlimited array dimensions	YES	NO (3)	NO (2)
English error messages	YES	YES	NO
Real-time clock	YES	NO	NO
Cassette deck:			
Named programs & files	YES	NO	NO
Digital circuitry	YES	NO	YES
Disk Drive:			
Capacity in K-bytes	174	90	88
Computer RAM not used	YES	NO	NO
Modem:			
Direct-connect	YES	NO	NO
Software	YES	EXTRA	EXTRA



Software for the Commodore Computers is virtually endless. Here is just a sampling of the many outstanding ready-to-use programs available for your Commodore VIC 20:

COMMODORE VIC 20 SOFTWARE:

VL100—Gortek (Cassette)

Help Gortek stop the Zitrons! This unique concept in teaching young people to program combines space adventure with Basic programming. First lesson consists of 2 tape cassettes and a glossy 42 page instruction book which reads like a comic book, while teaching the fundamentals of Basic programming.

VL102—Intro To Basic I (Cassette)

Excellent first book for any new computerist. Lesson tapes included. Extensive 150 page workbook to assist you.

VL103—Intro To Basic II (Cassette)

A continuation of the excellent Basic programming series with more programs, lessons, and instructional aids including 150 page workbook.

2004 Money Decisions I (Cassette)

Pre-programmed easy-to-use money decisions loan analysis shows you how to make the most of these loan concepts: Principal, regular payment, last payment, remaining balance, time period, annual interest rate & variable rate loan.

2005 Money Decision II (Cassette)

Pre-programmed easy-to-use money decisions investment package shows you how to make the most out of these investment concepts: Future investment; initial investment; regular withdrawals; regular deposits; future annuity and much, much more.

VT106A Rec 6 Pack (Cassette) Joystick or Keyboard

Car Chase—Fast-paced road action
VIC 21: Casino-style Blackjack
Blue Meanies from Outer Space—Space game
Biorhythm/Compatibility—Compare biorhythms
Space Math—Math Improvement
Slither/Super Slither—Dexterity game
Joystick or Keyboard

VT107A Home Calc 6 Pack (Cassette)

Personal Finance I—Home Budget
Personal Finance II—Home Budget
VIC Typewriter—Word Processor for Home Use
Expense Calendar—Income, expenses, appointments
Loan & Mortgage Calculator—Decision-making Aid
Home Inventory—Home Belongings List

VT108 Math Improvement 6 Pack (Cassette)

Numbowl; LCM Machine; Sector Five; Back Fire; Scare City Motel; Ruler Dueler

VT109 Sampler 6 Pack (Cassette)

Big Bad Wolf Music Synthesizer; Alpha Draw **Joystick**; Treasures of the Bat Cave; Crawler **Joystick or Keyboard**; Super Seekers **Joystick**.

1924 Omega Race (Cartridge) Joystick or Keyboard

The Smash-Hit Arcade Game: The ultimate space game. You've got one Omegan fighter maneuvering against droid ships, command ships, death ships, photon mines, and vapor mines. Fantastic "Rubber Band" boundaries, multiple levels of difficulty, all the features that make the Bally/Midway game so successful! One or two players.

1901 Avenger (Cartridge) Joystick or Keyboard

It's an invasion of space intruders and you're the VIC "Avenger". Destroy the attacking aliens by controlling your laser cannon. Three exciting rounds, increasing speed, arcade-style action.

1907 Jupiter Lander (Cartridge) Joystick or Keyboard

Pilot your "Jupiter Lander" through the treacherous crevices of a mysterious planet. Variable rocket thrusts, anti-gravity, horizontal retros.

1919 Sargon II Chess (Cartridge)

Seven challenging play levels. Called the "Best Micro-computer Chess Program" by experts. Sargon II makes the VIC a challenging chess opponent.

1922 Cosmic Cruncher (Cartridge) Joystick or Keyboard

Maneuver your "Cosmic Cruncher" through the Milky Way and "Crunch" all the pulsars in the galaxy, eleven challenging levels of play, over 300 color/maze combinations. Exciting arcade action!

1923 Gorf (Cartridge) Joystick or Keyboard

Midway's incredible game includes four completely different games, multiple levels of difficulty, some of the best cartoon graphics ever devised for video games. Invaders, Gorfies, death ships, saucers, aliens . . . It's Terrific!

COMPUTER EXPANSION

Once you see what your Commodore VIC 20 can do, you want to do more and more. So . . . Now that you know easy it is to own a VIC 20 find out how easy it is to expand.



1 1600 Modem

This direct-connect telephone interface allows the VIC 20 or Commodore 64 to communicate with other computer systems. Includes cassette-tape terminal with software, free password and one-hour subscription to the CompuServe System.^{TM*}

- Switchable from Originate to Answer
- Software controls for duplex, baud rate, parity
- LED for carrier detection
- Optional adapter available for non-modular phones
- Baud rate up to 300

1650 Automatic Modem (Not Shown)

The 1650 Modem is a 300 baud direct-connect telephone interface that allows the VIC 20 or Commodore 64 to communicate with other computer systems. Includes a cassette tape with sophisticated terminal software, a free password and one-hour subscription to the CompuServe System.^{TM*}

- Auto answer
- Auto dial
- Full and half duplex modes

2 1525 Printer

The 1525 Printer is a matrix impact printer and hard-copies from Commodore 64 computers.

- 30 characters per inch
- Prints graphics and text
- Contains own 6525 microprocessor
- 110 volts, 25 watts

3 1520 Printer

The 1520 Printer is a dot-matrix printer that connects to Commodore 64.

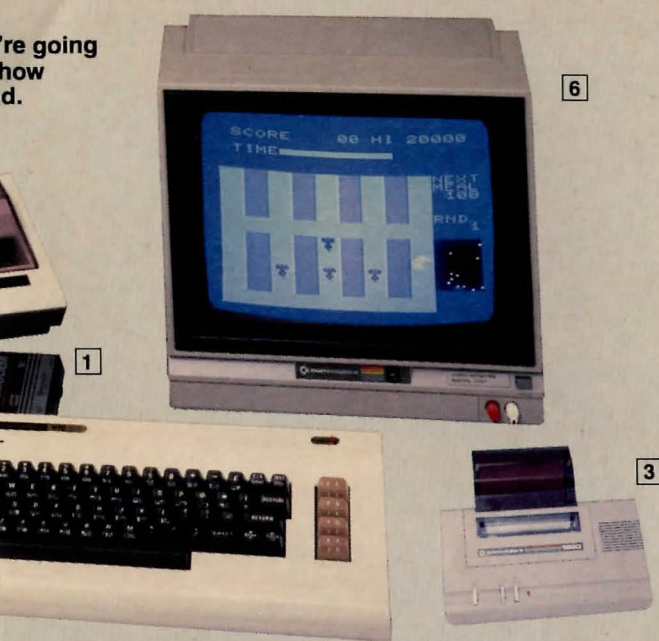
- Four colors available (cyan, magenta, yellow, red)
- Handles graphic and text
- Water ink ballpoint pen
- Drum type x-y plotter

4 1541 Disk Drive

The 1541 Disk Drive is a floppy diskette recorder and high-speed and capacity data. It is read/write and writes diskettes created on Commodore 2031 disk drives.

- 6502A microprocessor
- 110 volts, 25 watts
- Uses any 5 1/4 inch floppy diskette regardless of press

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an 80-column dot-
for creating printouts
n the VIC 20 or
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A microprocessor
50/60 cycles

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directly to the VIC 20

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characters

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floppy diskette,
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5 Commodore 1530 Datasette

The Commodore 1530 Datasette is an external tape recorder and player offering a low-cost, highly reliable way to store and retrieve programs and data.

- Keys for play, record, fast-forward, rewind, and stop
- Commodore propriety format using pulse-width modulation and square waves
- Allows naming of programs and files, verification of programs, end of tape marker sensing
- Uses standard audio cassette tapes. Digital tapes not required

6 1701 Monitor

This full color monitor is compatible with the VIC 20 or Commodore 64 and most other personal computers

- 13-inch screen
- 40-column x 25 composite video
- Line resolution
- Built-in speaker with audio amplifier
- Video recorder compatible

7 Joystick/Paddles

Controls for games and entertainment

*CompuServe is a trademark of CompuServe, Inc.

COMMODORE VIC 20 SPECIFICATIONS

The Commodore VIC 20 is a full powered computer system for the home that works with TV sets or video monitors. It is programmable by the user or by using pre-programmed solid state cartridge or cassette tapes. It is a fully expandable system, featuring all built-in ports for expansion so the system can grow easily and inexpensively as the customer's needs grow.

MICROPROCESSOR: 6502A. Display controlled by 6560 Video Interface Chip.

MEMORY: 20K ROM (expandable by 32K); 5K RAM (expandable to 32K).

KEYBOARD: Full-size typewriter style. 66 keys, upper and lower case alphabet, numerics and business/calculation symbols . . .

DISPLAY: 22 columns by 23 lines. High resolution graphics capability; 176x184 pixels.

SOUND: 4 tone generators, covering 5 octaves, including a "white noise" generator for sound effects; programmable volume and tone control.

LANGUAGE: PET BASIC 2.0 written by Microsoft. Accessible 6502 assembly and machine language. Optional Fourth cartridge.

ELECTRICAL: 110 volts, 44 watts, 50/60 cycles.

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COMPUTER