AMSTRAD
This computer system won't give you any arguments at home.

The Amstrad CPC464 computer system comes complete with its own colour monitor or green screen VDU plus an in-built, fast loading data recorder. Yet it costs around the same price as a comparable micro computer without monitor or data recorder.

The advantage is two fold. Your home computer operates independently of your television set, so both can be used simultaneously. And the money you save on hardware costs will provide an extensive array of software and accessories.

The Amstrad system is unique, and offers greater convenience and far greater economy than any comparable systems.

Complete, ready-to-go system.

The Amstrad CPC464 is a complete personal computer system that's ready to go the moment you plug it in. You get a powerful computer with a full colour typewriter style keyboard that's a breeze to use. Plus you get a full colour monitor and in-built data recorder for around the same price as most computer keyboards.

Amstrad offers 64K of RAM (42K available), 32K of ROM and a very fast, extended BASIC. Dollar for dollar no other system adds so much to Amstrad. That's why it's fast becoming Europe's number one choice in personal computers.

12 MONTHS GUARANTEE

Software for home and business.

Amstrad software features some of the most exciting games ever devised for the home computer, plus many wanted business and financial programs. All are designed to maximise the CPC464's impressive graphics, sound and processing capabilities.

Amstrad high resolution graphics (640x200 pixel) coupled with the precision of the Amstrad colour monitor make for visibly superior screen images which, in turn, facilitate greater enjoyment and understanding. Feed Amstrad's 5 voice, 7 octave stereo output through your hi-fi amplifier and you'll match brilliant pictures with equally brilliant sound.

At home or in business, Amstrad's speed loading facility means even the most complex programs can be loaded without undue delay. And for business use, features such as numeric keypad, copy cursor facility, 32 user defined keys and a high definition green screen VDU-set Amstrad apart.

Games? Try your skill.

Amstrad high performance video games will have you on the edge of your seat with excitement. Choose from a range that includes 3D adventure games, classics like Chess and Xanagrams, children's fun and educational programs and sci-fi fantasies.

The substantial RAM in the Amstrad CPC464 computer means software authors have extra scope to develop games and ideas that lesser computers do not have the capability for.

Unlimited scope for expansion

At Amstrad, we look to the future. With a centronics compatible parallel printer interface and joystick port, Plus inexpensive add-ons like the DMP180 column dot matrix printer and CPIM and LOGO disk drive (available shortly) - you get 12 months unconditional guarantee on the computer, monitor, printer and disk drive.

Add up the built-in features and low cost extras and you'll decide on Amstrad. (Extensive range of Software for small business applications.) Distributed and guaranteed throughout Australia by AWA-Thorn, available from leading electrical stores and computer retailers.

AMSTRAD COMPUTER DEALERS

Metropolitan

Gerald's Electronic Pty. Ltd. — Perth & Victoria Park
Hills Appliances — Kalamunda
Vision On Electronics Pty. Ltd. — Victoria Park
Gonskiello, Broome, Dampier, Karathara, Newman, Port Hedland & Tom Price

Vicwest Software Services - Innaloo

Country

Albany T.V. Services
Allied Hardware — Merredin
Arnold Cook — Kalgoorlie
Avon Television Services — Northam
Bunbury Discounters
R.W. Battony & Co. — Bruce Rock
Electrical Appliance Centre — Dongara
Fletcher Refrigerations — Margaret River

Hall's Home Furnishers — Carnarvon
D.E. Jones & Sons — Corrigin
King & Brown Electronics Ltd. — Geraldton
Koolan Emporium — Koolan Island
Mal Gould Retravision — Rockingham
Moore Appliances
Mr. Barker T.V. & Appliances
Norm Oates Retravision — Narrogin
Pinjarra Discounters
Lance Rock Retravision — Mundaring
Ron's T.V. & Sewing Centre — Katanning
Ruralvision — Wongan Hills
A.L. & H.M. Thiel — Lake Grace
Wagin Industrial Services
J.K. Williams & Co. — Dowerin
Goldfields Business Machines Pty. Ltd. — Kalgoorlie
Doors — Port Hedland

SUNDAY TIMES MAGAZINE, DECEMBER 2, 1984 M43
Instead Of Saving For Your Kids Education

COMMODORE 64
Personal Computer

Keeping up with you.

Maybe You Should Be Spending For It.

At last, the world's number one selling computer in a pack. The Commodore 64 now available in a family pack at a very affordable family price. $700 value for just $499. You get the powerful Commodore 64, plus cassette and joystick, four software programs: Money Manager, An Arcade Game, Roll Harris Picture Builder and Introduction To Basic (a teach yourself program). A great gift for the whole family who work and play together.

Contact your nearest Commodore dealer or Commodore Business Machines:
Sydney: (02) 427 4888 Melbourne: (03) 429 9655 Brisbane: (07) 393 0745 Perth: (09) 478 1744
**Disc makes Sega complete home computer**

JOHN Bands has released a micro floppy-disk drive system for the Sega home computer.

It is expected to be the first international standard floppy-disk drive for the Australian home computer market and is part of the John Bands Sega SF9000 Super Control Station.

The SF9000, from Sega Enterprises of Japan, rounds out the total home computer package marketed in Australia by John Bands and closely follows the Sega SC9000 Personal Computer released last year.

The Super Control Station combines a processor and a processor expansion with the Sega, which gives the computer a certain flexibility in choosing extra components to combine with the Sega 9000.

As well as being a disk drive, the SF9000 also has an extended level of basic programming, total 4k random access memory and both standard and ASCII interfaces.

The disk-drive interface connects to the Sega Super Control Station manufactured by National Panasonic.

This single-sided high-speed drive gives the Sega user the best fit of being able to find programs and data quickly and store them quickly and easily for future use.

**High speed**

Any disk drive already has programs on it that are most popular, most easy to load disks, runs faster times faster than traditional floppy disks.

This high-speed efficiency is the principal advantage of this disk drive.

---

**WA education institutions in international scheme**

APPLE Computers Australasia will donate $90 million of computers to tertiary institutions around Australia, including WAIT and WAIC.

The company says it wants to provide educational institutions with the best possible education and assist the development of educational computing.

The Consortium includes Macintosh and Apple order, and each member will get the Inovative Macintosh and Apple order.

The Consortium is a further move in the development of the Australian university system, which is already strongly established in the United States, Canada and Australia.

Apple Computer Australia expects that 40 million worth of Macintosh and Apple order will be supplied over the three years.

Other computer suppliers such as Microsoft, Imaging and Compaq will support the Consortium.

---

**Rentals market moves on new field**

THOSE unable to disable which home computer to buy from the choice those who want to take one "for a test drive" before buying may get help for the rental scheme from David Hall.

David Hall, managing director of First Rentals Australia, said: "We've been providing home computers to the rental market for some time.

"Rental has become a very accepted and even preferred method of getting televisions and video recorders.

"Why not rent a home computer as well?"

Rental

Now available for rental are the Commodore 16 and Vic 20.

"We chase the Vics and Commodore 48 for obvious reasons - they've established popularity in the market and the excellent range of software is top," said Mr. David Hall.

Western Australians can join the 67,000 plus of Commodore 48 for example who have bought or just entitlements to the new rental products, our computers are supported by a full service of people and software.

"If there are any technical problems our professionals can attend to within 24 hours and if it has to be supplied back to the shop.

---

**Is Christmas on your computer program?**

Everything you need in Computer software packages, educational literature, and hardware add-ons in almost any computer language. This year, make it a computerized Christmas.
GIVE YOUR KID A BETTER BRAIN FOR $249.

The new Commodore 16 has arrived. From the world's most popular name in personal computers. While it's no toy, it's a lot of fun. While it's highly advanced, it makes the ideal first time computer.

It's just $249. And that's the cheapest way we know to give your kid something you've always wanted yourself. A better brain.

Fun, games and brains. Commodore Computer

Contact your nearest Commodore dealer or Commodore Business Machines:
Sydney: (02) 427 4888 Melbourne: (03) 429 9855 Brisbane: (07) 393 0745 Perth: (09) 478 1744
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Commodore COMPUTER
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Save on Electrical at Myer* Ideal Christmas Gifts!

SONY INFRARED REMOTE CONTROL VIDEO
New slimline, hi-fi component styling with wall and high-speed picture search plus new skip scan. 7-day, 2-event timer plus front loading function. TWO BONUS TAPES VALUED AT $36.

$849

CHANCE TO WIN A BETA MOVIE CAMERA

SONY CD REMOTE CONTROL VIDEO RECORDER
Outstanding features include 7-day timer, front loading facilities, picture search & 3yr. warranty.

$639

CHANCE TO WIN A BETA MOVIE CAMERA


$45

SONY 120 WATT SOUND SYSTEM
Compact portable unit with 4-band radio, auto-reverse cassette deck. Includes battery pack with car cord.

$799

SONY 34CM COLOUR TV
Trinitron colour system with video game ready input, cam- phone jack and "automatic" regulator. 2 year warranty.

$449

GENERAL ELECTRIC FULLY AUTOMATIC WASHER MACHINE
High profile agitator with pulsator action, large capacity non-rust interior, 3 wash cycles.

$439

GENERAL ELECTRIC 400 LITRE 2 DOOR FRIDGE
Automatic cycle defrost, slide out shelves, meat & crisper bins and deep door storage.

$699

GENERAL ELECTRIC FREEZER
Thin wall space saving cabinet. 4 full width shelves. Australian made.

$289

GENERAL ELECTRIC 290 LITRE 2 DOOR FRIDGE
290lt automatic cycle defrost fridge with tall bottle & deep door storage.

$529

MYER

PERTH 327 0151 - KARRINYUP 446 0011 - FREMANTLE 335 5455
Only an Atari Supercomputer™ can give you all this...

- 16K Memory expandable to 64K
- International Character Set
- Over 1,000 ready-to-use programs
- Help Key
- Built-in Atari Basic Programming Language
- Complete range of plug-in Peripherals
- CP/M® Option
- 5 Programming Languages
- 29 Graphics Keys
- 11 Graphics Modes
- 5 Text Modes
- 256 Colours
- 4 Sound Voices
- And more

For only $399 RRP

ATARI 600XL™ Home Computer

We’ll show you the way
Available from leading Atari stockists
**Atari maintains its success**

The Atari game centre has become virtually the industry standard over the past year and still survives as the top game centre despite fierce competition. Its success is directly attributable to its range of games and compatibility with games from other systems, and the fact that its games are available for purchase or rental. A two-play system with five games has been the norm for the past five years. The company has also responded to changes in the market by offering games that appeal to different age groups.

**Starpath's supercharger that expands the Atari game console**

Starpath has introduced a new game that expands the Atari game console. The supercharger has several features, including a built-in high-resolution color monitor and a built-in disk drive. It is compatible with the most popular games, and also includes a games library with more than 50 games. The console includes a game controller and a built-in speaker. The supercharger is available for purchase or rental, and is compatible with all Atari game consoles.

**Game shop hits back with computers**

In the face of competition from computer companies, game shops have responded by incorporating computers into their businesses. At home, computers have started to replace game consoles, and many people are now buying computer software to use on their game consoles. The computer industry has responded by developing software that works with game consoles, and there are now many games available for computers that can be played on game consoles.

**New Atari 2600**

Atari has announced a new 2600 model that includes a built-in high-resolution color monitor and a built-in disk drive. The new model also includes a games library with more than 50 games, and is compatible with all Atari game consoles. The new model is available for purchase or rental, and is expected to be a hit with gamers.
Save on electrical
at Myer
Ideal Christmas Gifts

SANYO MONO RADIO CASSETTE
AM/FM radio, auto stop cassette with built-in mike.

$62.95

SANYO AM/FM CARRY CASSETTE PLAYER
The Sanyo AM-FM stereo radio/cassette player.

$75

NATIONAL STEREO RADIO/CASSETTE PLAYER
Four big speakers! 4 band radio, 2 year warranty.

$229

NATIONAL BLACK & WHITE TELEVISION
Portable TV with built-in antenna.

$109

WESTINGHOUSE MICROWAVE OVEN
"Touch & Set" with over 20 separate features!

$429

REMOTE CONTROL TELEVISION
TV Monitor screen with video audio input terminals.

$599

SINGER SEWING MACHINE
15 built-in fashion & 5special stitches, auto buttonhole.

$379

ANOME SEWING MACHINE
10 practical stitches, auto buttonhole, easy operation.

$299

COLOCO VIDEO GAME
Bonzo Turbo Drive with Donkey Kong cartridge.

$229

SHARP HI-FI RECORDER
VHS 8 function remote control, front loading, 8 hour programme.

$759

SHARP CRYPTELLO CASE
For 30 tapes.

$13.95

SUMO HI-FI SYSTEM
Horizontal, front loading, tape deck and 3 band AM/FM radio 60 watt output.

$799
Big deliveries to ease the CD rush

Alberta TV-T is has shipped 13,000 units of the Sony CD Player to the 76 Electronics Officeworks stores in Australia. Over 100 of the players have been displayed at the store "the last straw" of the Sony CD Player rush.

The second consignment has arrived in Sydney. The initial demand is likely to be met with a demand for CDs. The delivery of the second consignment of the players will be in early June. The players will be delivered to the 76 stores during the first week of June.

"To have the range of CD players isn't enough. We have the high-quality, low-power electronics to go with the players. But what we need is a demand for CDs. That's the challenge," said a spokesperson for Sony Australia. The spokesperson added that the supply of CDs was limited and that they could not meet the demand.

"We are very excited to have such a large number of players in the market. However, we are still working hard to meet the demand," said the spokesperson. "We are currently working with our suppliers to increase our supply of CDs. We are confident that we will be able to meet the demand in the coming months."
Commodore Computers

When Commodore Computers launched its unique Commodore 64 earlier this year, the then sales manager for Australia, Roger Davis, described it as "a marketing nightmare". He said it was around the same time that the personal Commodore 800 hit the market, and it was a new direction in color monitor sales.

The first important thing to note is that the Commodore 64 does not have a color monitor, but instead comes with a 3.5" black and white display. This is a significant limitation, as most users expect a color display.

However, the Commodore 64 does have a number of features that make it a popular choice for many users. It has a built-in disk drive, which allows for easy storage and retrieval of data. It also has a built-in keyboard, which is essential for some users.

The Commodore 64 was designed to be a versatile computer that could be used for a wide range of applications. It was marketed as a home computer, but it also had the ability to connect to a television, allowing it to be used as a console for a home entertainment system.

Despite its limitations, many users found the Commodore 64 to be a reliable and affordable computer. It was particularly popular among gamers, as it was capable of playing a wide variety of games.

In conclusion, the Commodore 64 was a significant product in the history of personal computing. It was a popular choice for many users, and it helped to pave the way for the development of modern computers. However, it is important to note that it had significant limitations, and it is not recommended for use in any modern setting.

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**Prices fall as festive rush looms**

Tandy has reduced dramatically the prices of much of its computer hardware for the Christmas rush.

The reductions are the result of the company's move to sell only through its store divisions, and the elimination of third-party dealers. The company has also reduced its prices to be more competitive with other retailers.

For example, the very popular 8K version of the Color home computer has been dropped from $495 to $395.

Likewise the 16k extended Color version is down from $799 to $599, and the 32k extended Color is down from $799 to $599.

The new Model 100 portable that caused so much excitement when it was released two months ago has been reduced from $1599 to $999, and the model is now available for $799.

In the business area, many of the top models have been dropped by several hundred, and others by thousands of dollars.

The Model 100 is certainly a better buy, with more at no cost.

In the business area, many of the top models have been dropped by several hundred, and others by thousands of dollars.

The Model 100 is a complete with disk drive, and more so at no cost.

Although there is no critical opinion on the subject, it is being seen as a move by Tandy to be competitive in the market place.

Prices have fallen dramatically on most personal and business computers in recent days. Tandy was undoubtedly relying on its strong service, software and hardware support to win sales away from the competition.

But even with one of the most successful and strongest support system in personal computers in the market, there is only so much one can expect to get away with.

In one sweep Tandy has now made competitive prices and still has the excellent support system to offer customers.
Super Reliable AM/FM Clock Radio

Reg 59.95

$49.95

Save $10

- Battery Backup™ Beats any Blackout!
- Battery Sentinel™ Warns if Battery Backup is Low
- Works as AM/FM Radio or Buzzer Alarm
- Sleep or Snooze for Up to 1 Hour and 9 minutes

There's no present like the time! This Christmas give a gift that will be used every day of every year! Popular Chronomatic®-233 AM/FM Clock Radio features large easy-to-read LED digital display with hifio dimmer, FM and Wake LEDs. Radio has lighted dial, AFC and ceramic filter for superior FM reception, 7.6cm speaker. Battery Backup runs clock up to 8 hours, alarm for 10 minutes should AC fail. Requires 9V battery.

TRS-80 — The Gift for All Seasons!
Reg 449.00

$349.00

Save $100

Entertains and educates with eight vivid colors, exciting sound effects! 16,000 characters of internal memory, BASIC programmable, expands to 32K of memory, add printer, disk drives. Attaches to any standard TV set, uses instant learning Program Paks. With instructional, do-it-yourself training manual.

16K Extended Color Computer, Advanced programming features. Was $599.00 NOW 449.00

32K Extended Color Computer. More memory, bigger features! Was $999.00 NOW 599.00

Pocket Multitester

Reg 139.95

$88

Save 36%

Keep one in the glove box! Measures 8 ranges, AC/DC volts, current, resistance. Complete with test leads.

Hi Bias Chrome Tape™

Reg 8.95

Half Price!

C-60, 4400 C-90, 4400 Improved Dynamic range!

Portable PA System

Reg 149.95

$129.95

Save $20

Realistic® MPS-20. Great for New Year/Christmas parties! Complete 10-watt system with mike, volume, tone. For instruments too!

2 Way Flush Mount Speakers, Our Best! 120-watt capacity, 7.6cm midrange, 4.4cm tweeter, 15 x 23cm woofer. Moisture resistant.

Big Value in Auto Sound!

A

In-Dash Hi-Power AM/FM Stereo Cassette. Fits any car with sound! Auto-Search Music system speeds tape selection. Digital frequency我记得lastime display, 24-watt power, bass, treble, mono.

Reg 79.95

$69.95

Save $10

B

7-Band 40-watt Stereo Equalizer/Booster. Adds real punch, improves range and tone! 10 LED meter for each channel, front/rear fader.

Reg 79.95

$69.95

Save $10

C

3-Way Flush Mount Speakers, Our Best! 120-watt capacity, 7.6cm midrange, 4.4cm tweeter, 15 x 23cm woofer. Moisture resistant.

Reg 79.95

$69.95

Save $10

SAVE ON NEW LOW PRICES

A

A. Off-Road Land Cruiser. Go anywhere explorer! Hi/Lo gears, roll bar, big tires. Was $99.95 in ’83.

B. Sleek Racing Mustangs. Two different frequencies — pit one against the other! Full 5-function control. Was 94.95 each in ’83. Cat. no. 5403.

C. Remote Controlled Toys!

Reg 49.95

$29.95

Each

Inexperienced Tandy Dealers may not be participating in this ad or have every item advertised. Prices may also vary at individual Dealer Stores.

NEARLY 350 STORES AND DEALERS AUSTRALIA WIDE

THE SUNDAY TIMES MAGAZINE, DECEMBER 18, 1983
Board games
king moves
to electronics

A Japanese machine
developed by Sega, the
largest of the three
Japanese home game
makers, is being distrib-
uted in this country by
Kensington. While there
is no doubt that Sega has
made the name as recogni-
tible as the public is con-
scious of it.

John Sandu is a big-
ger-than-life figure in
Australia and it is
probable that within a
short time they may have
reached the point of being
more recognizable than
several "international"
names.

With some of the board
and computer games
rivalled if not beaten by
the old-fashioned games
of the new era. Giving game
speaks were important,
because it's a lot of fun for
the players to watch the
players before they bought
it.

This year the public
wasn't looking for any
game which was going
to hit them. Because
the Sega, retailing for
around $200 and K阬i
Martineau mentions that
it is the best value for
money under the $300
range.

"It is a true home en-
thrill, it is proper fun,
and additionally comes
from a family, he said."

VIDEO GAME REVIEWS

Ozisoft mosquitoes
lack bite

MOSQUITOS
Commodore VIC-2
(universal joystick
pointing)

The game was
spirited with a
trapped deep
within the neuro-
aticide. It was
destroyed by dotter killer
moss, which

This game is
completely differ-
et and has nothing
in common with the
earlier, more popular
mosquito.

The game is
simple to play and
very acceptable,
but there are
various mosquitoes
which appear on the
screen.

The game is
very good, but
the mosquitoes
are not as
aggressive as
the real things,
which can make
the game
more challenging and
more difficult.

Defined

The game is
easy to play and
very enjoyable.

The sound was
also done well.
It is one of the
best sound effects
you will hear in a
computer game.

Eventually I
turned off the
sound and played
in silence, but
it is not the
dangerous thing
called in the
literature. The

The game
recognizes
the owner's
name and
automatically
dedicates it.

Your anti-aircraft gun

When a paratrooper
hits the ground
the explosive
effects are
very realistic.
The sound effects
are very effective,
and the overall
feeling is that
of an air battle.

The game is
very good and
the mosquitoes
are made of
different colors,
which is easy on
the VIC-20.

The game
recognizes
the owner's
name and
automatically
dedicates it.

Hills are alive with
rental video & TV sets

Rent a National TV set
from Hills large range and enjoy
the show without going through
all your favourite things.

$999
$1299

Alberts hi-fi
PEDER

How does a
Million Bucks sound?

LIKE THE NEW FERRIS 611-110 RADIO CASSETTE
Features digital sound and is
 ancora

BEST VALUE CB IN TOWN
FERRIS CB 8000 40 CHANNEL AM FM
Including pre-tuned antennas with
dual and lock-down aerials

$199.95
$299.95

Service and repairs to all makes of
Car Sound and CD's.
Computers worth the outlay

Children can gain a lot

One of the hottest presents for any parent's Christmas list this year is a home computer.

While there is no doubt there won't be a computer on most parents' Christmas lists this year, there are many parents who are considering whether or not to buy a computer for their children.

The decision to buy a computer for a child is not an easy one. There are many factors to consider, including the child's age, their interests, and their ability to use a computer.

However, with the right setup, computer ownership can bring many benefits. Children can learn new skills, develop critical thinking and problem-solving abilities, and have fun while doing it.

Introducing the SEGA COMPUTER

SEGA

It's the personal computer that outperforms, out-designs, out-MICRA, out-experiences in its class - in a world of equivalent systems.

The John Sands SEGA SC 3000 OUTSTANDING in terms of power (256 x 256 x 256) and resolution (256 x 256 x 256) combined with an operating system of high resolution display (256 x 256 dots per screen and display) and an operating system that is easy to use. OUTSTANDING in terms of its capability to interface with the wide range of peripherals and OUTSTANDING by TERMS OF EASE OF USE AND VALUE.

SEGASOUND shop

backgammon

HITACHI WORLD LEADERS IN TECHNOLOGY

OUR COMPUTERS ARE NOT FOR EVERYONE!

Focus is on the computer's ability to perform specific tasks, not on the computer's ability to perform general tasks. The power of our computers is in their ability to perform specific tasks, such as the ability to perform a wide range of tasks, not their ability to perform general tasks.

If you want to buy a computer to grow into a valuable tool that can be used for serious purposes as well as games, you're on;

If you want to learn how to write programs and use a computer, you're not.

If you want to use a computer to play a video game, you can.

If you want to use a computer to grow into a valuable tool that can be used for serious purposes as well as games, you're on;

OFFICE UPDATE

159 ADELAIDE TERRACE, PERTH (09) 329 3499

AUTHERISED HITACHI DISTRIBUTORS

There are many different brands of computers available on the market, and it can be difficult to choose the right one for you. Here are a few things to consider when choosing a computer:

- Price
- Quality
- Support

Don't be afraid to ask questions before you make a purchase. If you have any doubts, don't hesitate to ask for help.