



zx mushroom club

35844
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DECEMBER 1987



First of all, the editorial staff and the staff at INFORMATION ENTERPRISES wishes all the members of the Club a very happy christmas and an even better New Year. We all look forward to your continued support in the new year.

BACK TO BUSINESS! The Club would like to remind you that Gift Vouchers are still available for christmas presents for that Special person. They are available in R5.00 and R10.00. INFORMATION ENTERPRISES is really excelling this festive season to bring you offers at even better prices than before. Do not miss this as these offers are never to be repeated! And that is the truth! Just look at the astounding prices offered for printers, computers, monitors, stationary and even games for the kids! The Club would very much like to improve its service to Club members. WE have reached an agreement with IE which is that they will make up any cable for any peripheral if you bring along the pin-outs for it and any other relevant details.

As from January the factory in Bophuthutswana will be open to the public. Further details on how to get there and telephone numbers will be published in the January Newsletter. But, remember for the time being all orders placed by post will be processed there and you will not have to pay GST to us, although the onus is on you the purchaser to declare the sale at your local Receiver of Revenue. When placing an order by post, please do not forget to include postage!

I have been criticized for not including enough articles in the Newsletter, well we have had a bit of a shortage of articles and would very much appreciate some articles from you the Club members. Next months there will be more articles. So come on and help make your newsletter more interesting!

INFORMATION ENTERPRISES has agreed to sponser the Club again for the next year, and therefore membership is still free! But, without your continued support and loyalty they will not be able to do so as one years expences for the Club amounts to just over R18 000.00!! So keep up the support or we will lose out!

IE's business hours for December will be the following:-

Mon - fri 8am to 7pm and open during lunch

Sat 8am to 6pm and open during lunch.

Ons het aspris die ure gekies sodat ons Plattelandse Kliente ons kan bel wanneer die tariewe goedkooper is om hulle bestelings te plaas.

IE is inviting Club members to check out their prices last as they are sure to be the best. Care to take them up on that?

Get your friends to join the Club and you will receive a special lucky-dip prize for your efforts!

Well I certainly have gone over-board this time! Its just that so much has been happening and I seem to have so much to tell you. Anyway thanks to our sponser IE the contence of the newsletter will tell you more about the interesting things and happenings.

- ★ Exclusive Members Only Offers
- ★ Free Monthly Magazine
- ★ Special Member Discounts
- ★ Club Newsletter that you can contribute to
- ★ Competitions - Profit from your skill

Anne

Jetzee Esq.
His Royal Highness Gert
will be back next month



LOGIC LEVELS

(ages 7 - 12)

Spectrum EXTENDED BASIC

This is an amazing maze with prizes everywhere! Plan your best path, and start the ball rolling. Thinking logically and planning ahead are important steps in learning. LOGIC LEVELS helps children learn to predict the outcome of a series of actions, and encourages quick decision-making. Mastering the maze takes skill and creativity, and is loads and loads of fun!

Normal Price	R24.99
Special Price	18.50
P&P	R1.50

LOOK SHARP!

The aim of this game is to sharpen observational skills and visual memory. With two very different themes, and three games in each program, there is lots of fun and variety for the whole family. The first game, Memory, challenges the player to remember and then recreate farmyard scenes. Odd-one-out tests observation by presenting three sets of animals which seem to be the same - but are they? snap for one or two players, is an old favourite, this version challenges the player to be quick on the button. Are you? The last game is the ultimate challenge. It runs all three games one after the other, under test conditions. Space age scenes of rockets, space stations and aliens feature in three testing games where quickness of hand and eye ensure success!

Normal Price	R29.99
Special Price	25.99
P&P	2.00

REACTOR

Reactor is an arcade game combining all the ingredients of skill, dexterity and quick-thinking that make a good game great! You are at the control console of a large computerised nuclear reactor and have to control the reactions taking place. You have the advantage of being able to see these reactions through your leaded glass window to the core. A balance must be struck between low power levels which give a safe level of radiation, and high power levels which lead to dangerous levels of radiation but allow the operator to proceed to further stages of the game. Can you accept the challenge?

Normal Price	R29.99
Special Price	19.99
P&P	2.00

A voyage of Discovery Push your Sinclair to the limit

Add structure to your programs and take the pain out of de-bugging! This programme can help you do this by providing you with ten additional BASIC commands which are considered essential aids for most programming applications, so much so that many of these commands are standard features on other machines!

The extra commands are:-

- * AUTO - Auto line number
- * CLOCK - 12 hour clock
- * DELETE - Line/block delete
- * EXAMINE - tape header reader
- * FIND - will search and point to a specific text
- * MEMORY - indicates current state of memory
- * RENUMBER - renumbers a program, including GOTO's, GOSUB's etc.
- * SCROLL - continuously running scroll
- * TRACE - indicates both the line and statement
- * VARIABLES - displays the variables currently in memory

Normal Price	R34.50
Special Price	29.99
P&P	1.80

SUPERCODE III

With 150 Routines and 100% Microdrive compatibility this has to be the ultimate Spectrum toolkit! It gives you the power to do everything you always dreamed of with your Spectrum in your own BASIC or M/C programs. Born of the earlier Supercodes (which received 5 star reviews) we can claim with confidence that we have packed absolutely everything into this STATE OF THE ART development. Needs no special knowledge to operate and comes with a manual. some of the other features are:-

- * access program lets you INDEX/LIST/TEST/TAILOR/RUN/RELOCATE/SAVE and VERIFY automatically
- * Options include EXAMPLE/REPEAT/JUMP AGAIN/CONT/TFR/DEMO/DIAGNOSIS/MOVE
- * Routines guaranteed SHORTEST AND FASTEST for all applications
- * Fantastic value for money!

Normal Price	R39.99
Special Price	29.99
P&P	1.80

MACHINE CODE!

ALFA EEN — DEUR LOUIS VD. WALT

Hier volg die oplossing vir ALFA EEN. Dit was n goeie program en ek hoop van harte dat julle dit ook geniet het. Indien iets nie werk nie kyk na spelling en spasies of bel my tussen 7 en 8, 30 in die aand. Die dele in hoofletters is direkte instruksies en moet net so ingetik word. Tel 011 789-4690

This program is still available at the incredible price of only R19.99
1.00 P&P

VLAK 1

1. Administrasieblok - BREEK STAALKABINET OOP - NEEM LIGSTAAF
2. Eetsaal - EET VOEDSEL - LIG AAN
3. Stoorkamer (NW van kombuis) - NEEM RUIMTEPAK - NEEM TANG
4. Kombuis - MAAK METAALKAS OOP - NEEM ROOI REKENAARSKYF - NEEM SEKURIETYDSKAART - LOS TANG

Ondersteun plaaslike produkte en speel n fantastiese avontuur in u eie taal!

VLAK 2

1. Ru-materiaalstoor - BREEK FLESSE - NEEM SODIUM - NEEM HYBERSOUT
2. Laboratorium oos van materiaalstoor - GEBRUIK LABORATORIUM - NEEM PLASTOJELLIE
3. Bestralingskamer - LIG LOODHOUE OP - NEEM GEEL REKENAARSKYF
4. Vervoerbuis met gat (s van kometukasiesentrum) - GOOI PLASTOJELLIE OOR KABELS - LIG KABELS OP - NEEM GROEN REKENAARSKYF - LOS PLASTOJELLIE

VLAK 3

1. Ontspanningsentrum - DRAAI POLS - B - HAAL TELEVISIESTEL UITMEKAAR - NEEM BLOU REKENAARSKYF
2. Steriele kamer - DRA RUIMTEPAK
3. Reaktorkamer - NEEM SONARSLEUTEL
4. Reaktordirekteur se kamer - DRUK HAND TEEN BLOEDVLEK - Jy beweeg dan outomaties in die kluis
5. Kluis - MAAK TROMMEL OOP - LOS SEKURIETYDSKAART - LIG AF LOS LIGSTAAF - NEEM WIT REKENAARSKYF METAALSKYF

VLAK 4

1. Gevegsbeheersentrum - VOER REKENAARSKYWE IN REKENAAR - NEEM DRUK STUK
2. Hyserbuis - KLIM OP FODIUM - MATERIALISEER

Eureka!
250 Koppure Mystery
See our special offer on page 7



56 REVIEW ★ SPECTRUM 108-108K

Konami

★★★★★	WELL WORTH THE MONEY
★★★★	GOOD
★★★	AVERAGE
★★	NOT WORTH THE MONEY
★	FILTH!

REVIEWS SOFTWARE REVIEWS

GRAPHICS	★★★★★
COLOUR	★★★★★
SOUND	★★★★★
VALUE	★★★★★
PACKAGING	★★★★★
ADDICTIVENESS	★★★★★
OVERALL	★★★★★

P.S. WHEN OUTS TEACHER MAY GET IN THIS GAME YOU CONTROL MIKIE - A MISCHIEVOUS TEENAGER RUNNING AROUND THE SCHOOL TO RESCUE VARIOUS PEERS FROM HIS GIRLFRIEND. THE GRAPHICS IS EXCELLENT. WALK AROUND THE SCHOOL COLLECTING HEARTS BY HIP-ZAPPING PUPILS TO GET THEIR HEATS OR BY SHOOTING. THIS GAME TRULY DESERVES A CLASSIC. SPELLERS ARE CHUNKY AND WELL DRAWN. FEW UNUSUAL CLASHES OCCUR.

These reviews were received by some of our very loyal club members. This is the type of involvement that we like to receive from our members. Are you up to it? Let us see then.

3

3D STAR STRIKE

REVIEW BY SPECTRUM

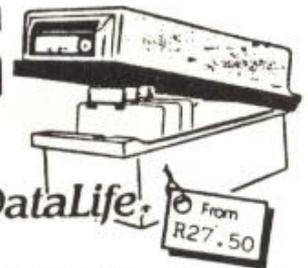
IF YOU'RE A BALLBUST 3-DIMENSIONAL STAR WARS FAN, YOU'VE SEEN THE MOVIE, YOU'VE KNOWN THAT YOU WANT A FURIOUS BATTLE WITH TIGHTENED AND PUNYER YOURSELF BY AN X-WING FIGHTER THROUGH THE AWESOME DEATH STAR AND DESTROY THE CENTRE REACTOR. IN STAR STRIKE THERE IS NO LIFE IN YOUR HAND, NO SHIP, NO WAR, NO BODY AND DASHY LADDER. ALL WE'VE MET STARSHIP GAMES, YOU OF COURSE HAVE SPACE SHIPPS AND LASERS. GRAPHICS OVER THE GAME ARE REALLY DONE IN 3-D. COLOUR IS NOT USED VERY OFTEN AND NO SOUND EFFECTS HAVE LITTLE COME FOR THEM. LEVELS OF DIFFICULTY COME NEARER AS YOU PROCEED, BOATS ARE ACQUIRED BY SHOOTING THEM OR ON UP OF THE DEATH STAR. THE GREAT FIRES BOLTS AT YOU AND DOWN THE SHIELDS. LESS SHIELDS AND ITS GAME OVER!

GRAPHICS	★★★★★
COLOUR	★★★★★
SOUND	★★★★★
VALUE	★★★★★
PACKAGING	★★★★★
ADDICTIVENESS	★★★★★
OVERALL	★★★★★

Price R29.99 ↑ Special price R19.99 Price R19.99



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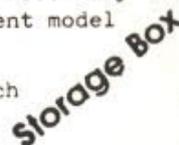
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SO REMEMBER TO TUCK YOUR FLOPPIES IN FOR THE NIGHT!

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Double Sided, Double Density 5 1/4" (soft sector) disks are now available in the following colours:- GREEN, YELLOW, BLUE, RED, WHITE, AND BLACK All disks are packaged in top quality plastic boxes and come in quantities of 10..... The plastic box and the diskette envelope are see-thru so you will have no difficulty in identifying the colour.

When you need the

very best:

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- * The Verbatim DataLife Head Cleaning Kit helps keep your system running clean and error free.
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the best alternative to the microdrive



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with built-in power supply and cable

For the serious computer addict, this is the only way to go! Mega-storage on your computer is the only answer. For those of you who doubt the capabilities of the Spectrum 48K, you are a downright loss! Mega-storage on the Spectrum is the thing of the future.

All drives are beautifully cased, with a built in power supply. The disk drive also comes with the cable. Where can you get a better package?

3 1/2" Double (yes 2!) Drives

Price R749.00
P&P 10.00

3 1/2" Single Drive

Price R449.00
P&P 7.00

For full details on interfaces, look in the SEPTEMBER NEWSLETTER.

BUILDING A PRITTY JOYSTICK AND I'FACE

- MC GYVER

As so many times before, The ZX Mushroom Club made yet another breakthrough. In this issue we unveil the true identity of the man who impressed us the versatility of his pen knife. Yes sir, we now know that McGyver is not a Yank, he is a South African, also known as Leon Treurnich!

In the first half of this article McTreurnich explains how you can hardwire an "Interface 2" joystick port to your Spectrum 16/48K. The second half gives some ideas on producing your own homebrewed custom made joystick.

As most players of modern games will know, the Interface 2 simulates keys 6 through 0 in the top half of your keyboard. The key positions are 6 = left, 7 = right, 8 = down, 9 = up and 0 = fire.

Instead of using an interface you can solder the wires from your joystick to the corresponding places

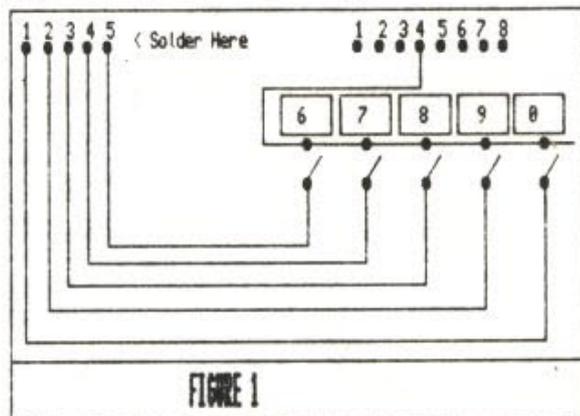


FIGURE 1

Instead of using an interface you can solder the wires from your joystick to the corresponding places on the motherboard. The most important safety measure to keep in mind is that all external wires and the joystick should be electrically and statically isolated, since a discharge into your Spectrum's input/output circuit could do serious damage.

Figure 1 shows to which lines you must connect your wires on the motherboard, as seen from the front and above when you open your computer. The soldering must however be done on the underside of the board. This way you can easily remove the wires and make no permanent changes. Line 4 on the 8-bit bus is the common ground to which the 5-bit lines, when connected, will trigger keys 6 - 0.

Only trial and error will determine to which lines of the joystick plug you should solder which wires, that is if you will be using a bought joystick, since generally the plug on such a joystick cannot be opened for inspection.

Be sure to keep the stripped ends of wire that you solder onto the board very short, so that there is no chance of it shorting with any other wire of soldering joint.

This concludes the detail of making a joystick "part". Here follows a description of how I built a joystick to fit the "part".

The parts consisted of an empty 18g Pritt-stick outer body, which was the control stick, the frame of a small 1/2 watt speaker from a small radio, an old flat pencil box, 8 screws, a few nails and one microswitch for the fire button. The Pritt holder was forced to fit onto

the magnet at the back of the speaker.

(If your speaker has a different sized magnet, you can either stuff it with matches etc. or use something other than a Pritt-stick outer body.

The ground was connected to the speaker frame. Now small nails (figure 3: [1]) were positioned so that after a movement the frame will always return to the same

position. Next the screws were turned in exactly above the circular ring of the frame as shown in figure 3, and in the positions as shown in figure 2. This way the stick will always engage with two screws at a time and go into 8 directions, which is all you need. Thus, 1+8, 2+3, 4+5, 6+7 should be used together in pairs as the 4 main directions.

When pressed diagonally the frame will connect with the corresponding screws that represents the net horizontal and vertical directions of the diagonal movement. The screws can be adjusted for different games to suit personal taste.

Now you can beat Decathlon and similar games without beating your brittle membrane.

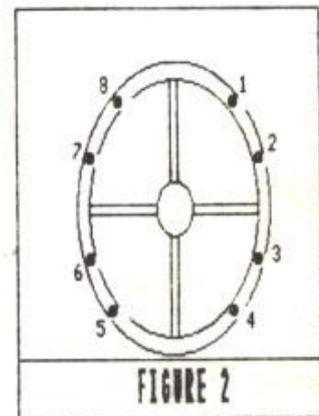


FIGURE 2

WE DO NOT ACCEPT ANY RESPONSIBILITY FOR THE INFORMATION SUPPLIED IN THIS ARTICLE.

For this contribution, McLeon McTreurnich received the normal R15.00 gift voucher, plus an additional R10.00 for originality. Can you equal this?

5

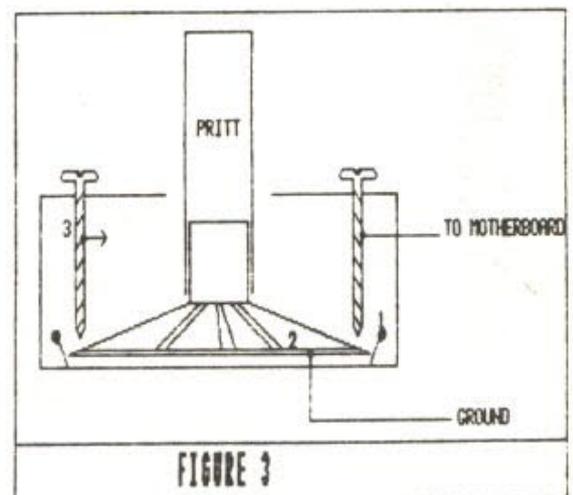


FIGURE 3

THE GRAPHIC ADVENTURE CREATOR

GRAPHIC ADVENTURE CREATOR (GAC)

Make adventure writing easy! The GAC makes it simple for you to produce your own fast, compact, illustrated adventure games.

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Total	81.63



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- RAM Disc
- Printer Buffer
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TASK MASTER

TASK MASTER

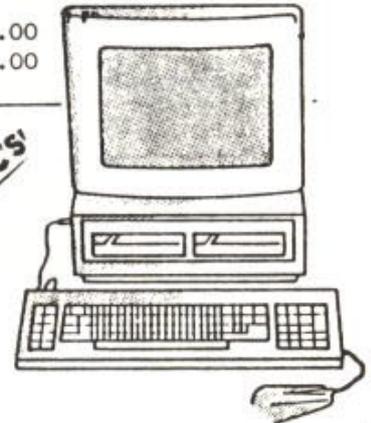
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MAIL ORDR - it's so convient and just a phone call away!

I.E.'s so cheap you've got convience and a good deal!
So remember I..E. first (always)

INFORMATION ENTERPRISES has been incorporated into a new company called AMABOP, and is now a division of this vast coporation. All correspondance should be addressed to:- Information Enterprises, a division of AMABOP. What does it stand for? ANNE, MARY, AIDEEN in BOPHUTHUTSWANA! The ladies are taking over!

6

SPECIAL OFFER SOFTWARE.

TITLE	NORMAL PRICE	OFFER	P&P
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SPECIAL SUPERWRITER

This pack is intended to help the young schoolchild to master the basic skills of handwriting. Its aim is to supplement school learning, not replace it, and for this reason the form of letters used here are the same as those used in the schools today. This programme is full of fun and games and with Superbug and his friends spider Will, Lady Bird and Slinky Worm, will provide hours of fun and learning. For children from 6 - 9.

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P&P 2.00

Buy the other half of the pack - NURSERY RHYME ADVENTURE, then you can purchase each for the unbelievable price of only R12.99 each. Normal Price of the pack is R49.99

When you buy one of the above titles or any of our hardware on special christmas offers, you can purchase the following software stocking fillers at the incredible price of only R5.00 each, or even better only R3.00!

R3.00 each

- Caterpilla
- Genon in 3D
- Inca curse
- The Island
- Knot in 3D
- Micro mouse
- Leapfrog
- Make-a-Chip
- Reversi
- Splat!
- Stonkers
- Terror Daktil
- Backgammon
- Bubble Buster
- Erik and the Floaters
- Horace and the spiders
- Hungry Horace
- Manic Miner
- Cookie
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R5.00 each

- Antics
- Birds and the Bees
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- Music Master
- Magnets
- Space Raiders
- Galactians
- Death star interceptor

REMEMBER:- Although we don't have space to publish details on these programs, the cassette alone is worth R2.00!

POSTAGE IS FREE ON THE ABOVE TITLES WHEN BOUGHT WITH AN ATTRICLE FROM A1!

eg:- You can buy ENDURO RACER for R33.00 and HORACE AND THE SPIDERS for R3.00, making a total of R36.00 plus R1.50 P&P.

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GREAT GAMES

BEST BUSINESS PACKS

THE ARCADE

07

opts for Amstrad

AMSTRAD CPC 464 CORNER (and others)

We feel terrible about neglecting you for so long and to make matters worse, you are members of the Club and entitled to a corner!

A short list of Amstrad CPC 464 special software follows just for you.

	RRP	OUR PRICE
Master of the Lamps	45.00	40.99
Souls of Darkon	36.50	32.50
The Sentinel	39.99	36.99
Genesis: The complete Adventure Creation system	43.99	38.15
Spy vs Spy	43.99	38.15
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Computer Hits: Includes 3D Starstrike, Covenant	63.99	57.95
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Your key to communications!

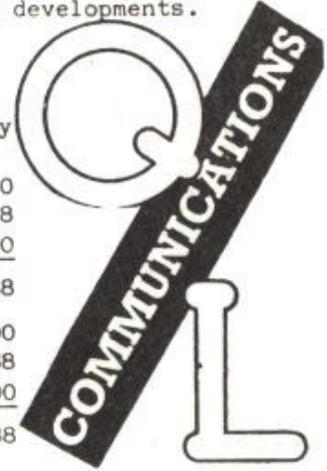
COMMUNICATION is the ultimate weapon and without it the world would fall apart! communicate with your QL and keep in touch with the state of the art technology and new developments.

Modems are the answer!

special for this month only

QL Modaptor	R139.00
GST	16.68
P&P	2.00
Total	157.68
Modem incl cable	R199.00
GST	23.88
P&P	2.00
Total	224.88

ONLY WHILE STOCKS LAST



Spectrum owners, you too can have the ultimate weapon and communicate with each other!

Just look at these amazing prices just for you!

Modem, software and interface	R199.00
GST	23.88
P&P	2.00
Total	224.88

Thinking about what to get Dad for Christmas? Well, these titles are just the type of thing that Dads like. Just have a look and see.

Games for Dad

	RRP	SPECIAL
Dartz	17.99	15.99
Racing Manager	16.99	14.99
Derby Day	16.99	14.99
(a graphic horseracing game for up to 5 players)		
Football manager	14.99	12.50

Dreadnoughts	19.99	17.60
Grand National	16.99	14.99
Sport of Kings	14.99	12.99
Samantha Fox Strip Poker	23.99	19.99
Pub Games	39.99	34.99

(includes:-
Table football
skittles
bar billiards
pontoon and poker
dominoes
darts



Shadow of the UNICORN



PS DON'T FORGET GST AND P&P!
P&P IS R2.00 ON BOTH ARTICLES

This game comes with a JOYSTICK INTERFACE, book and cassette! What an amazing package All this for only R58.50! So come on Adventure Addicts, this is just for you! 9. Normal Price of this game is R79.99.

If you buy this game, you qualify for the very special offer where you can buy a Joystick for the unbelievable price of only R19.00. The normal price of a joystick is R20.50!

so come on, this is a once in a lifetime offer, and stocks are VERY LIMITED. 4 in Stock! get your order in now to avoid disappointment!

ONLY.....

SUPERQBOARD WITH MOUSE



For the Sinclair QL this must be the ultimate peripheral. On one neat plug in unit SANDY technical innovation has packed full high speed memory expansion to 640 KByte multi-standard disk interface parallel printer port, full mouse controlled environment, dynamic RAM disks, QRAM and SuperToolkit II, CADPAK, and much more.

SUPERQBOARD - The full SUPERQBOARD facilities are enhanced by the addition of up to eight fully dynamic RAM disks (which can also be formatted to fixed capacities) with nine-second microdrive bulk loading facility. The POINTER system for mouse management is built into the on board ROM. The board can be supplied with no extra memory for users with internal or thru-con expansions, or with the full 512 KByte extra RAM which runs in no-wait-state mode at very fast access speeds.

SYSTEM DISK/CARTRIDGE - A SYSTEM disk contains QRAM, CADPAK, real window manager and utility files.

MOUSE - High quality mouse has two buttons for SELECT and DO. The acceleration scale can be changed using the OPTIONS menu and different settings saved for future use.

QRAM - This amazing front end manager from QUMP is specially integrated into the SANDY SUPERMOUSE system. It provides real windows, pull-down menus, file control, multi-tasking job management, hotkey control for instant job sweeping, full print operation support, screen and window dumping and so very much more! For ease of use and speed of operation there is no other system to match QRAM.

CADPAK - From DATALINK SYSTEMS this painting program demonstrates the superb Mouse control facilities with pull-down menus and icon selections. Specially written to use the POINTER routines to the full it gives the user the real control which only SuperMouse can provide.

UTILITIES - Support utilities include GRABBER which prevents your Pascal programs from grabbing all the free memory and leaving no room for other jobs to multi-task. GUARDIAN protects real job windows from being overwritten by stray parts of other job windows. UNLOCK to remove the GUARDIAN protection from a window. KEYPOINT which translates mouse control calls into keypresses thus enabling the mouse to be used in programs which were not written to use the POINTER facilities.

WMAN - The Window Manager and Pointer interfacing routines are accessible to the programmer and a technical manual is available to cover this subject.

QL owners, just look what is blowing in! With all these fantastic add-ons coming in for the QL, the one who says that the QL is dying out is very much mistaken! I.E. is doing its best to keep up with the overseas market and to keep abreast with new technology. You most certainly can not say that we are neglecting you! Both the CP/Mulator and the new SuperQboard with the mouse will soon be coming into stock.

CP/MULATOR

Price R199.00
 P&P 2.00

SUPERQBOARD WITH MOUSE

Price R1029.00
 P&P 3.00

new releases

QL Reviews



CP/MULATOR FOR THE QL

QDOS is a superb multi-tasking operating system unrivalled in home or business micro-computers but due to the relatively low number of QL's in circulation software support is thin. Giving access to the software from another operating system instantly improves this state of affairs.

SANDY PRESENTS CP/MULATOR - a complete CP/M emulator to open the vast CP/M software library to QL users. Consisting of a plug in ROM cartridge and system disk or microdrive your QL instantly becomes a CP/M machine and runs in 128K or expanded machines. Usual prompts, screen layout and responses of a CP/M machine are displayed but using the input line editor of the QL - so CTRL/CURSOR KEYS have their normal QL functions.

ROM CARTRIDGE - this emulates a Z-80 microprocessor in software and is used to obtain the fastest execution speed as your QL accesses an external ROM much faster than its own memory. When using a Debug program to print out the register contents a full Z-80 set of registers is displayed even though no Z-80 is present!

SYSTEM DISK - the disk contains the main emulator, and a highly sophisticated disk format conversion program which is menu driven and enables almost any CP/M format disk to be converted into a QDOS disk. The most common formats are direct menu options but unknown formats can be analysed by the program which tries out various combinations of track formats, sector skew factors, directory reserved sectors and so on.

COMMAND INTERPRETER - all input commands are interpreted into either Z-80 or 8080 instructions before being sent to the main emulator; usual CP/M wild card characters are fully supported.

SCREEN DRIVER - many CP/M programs are written to operate with a particular terminal which provides specific features. These features are supported by the integral screen driver.

KEYBOARD DRIVER - CP/M terminals have specific codes for combinations of keypresses or function keys. The keyboard driver provides these translations to support on-screen editing in programs such as Wordstar and Turbo Pascal.

INSTALLATION - the system disk contains an install program to select the default options for your CP/M system and a sample BOOT program written in SuperBasic. CP/Mulator runs as a job under QDOS and can be switched in and out of like any QDOS job.

MANUAL - a comprehensive and very clear manual explains how everything works and operation is exceptionally straightforward

COMPATIBILITY - CP/Mulator will run almost any CP/M program which is written to obey the rules of CP/M under any except the concurrent versions. The CP/M users group has a huge library of public domain software available in compatible formats at a little more than transcription cost and you should definitely join up.

QL

TRUMP CARD

SANDY
INTERFACE
BOARD



We have extended our very special QL offer for you, so that you can take advantage of this once in a lifetime offer. This offer is valid until the 15 of January 1988 OR while stocks last! So, come on and get in on the offer while you can.

Price	R499.00
GST	59.88
P&P	15.00
Total	573.88

**WHILE
STOCKS
LAST**

SPECIAL!

- * Where else can you get a standard 128K machine which you can enlarge to a total of an unbelievable 896K at such a low price?
- * Where else do you get a WORDPROCESSOR, SPREADSHEET, DATABASE AND GRAPHICS PACKAGE thrown in for no extra money?
- * Where else do you get a COMPLETE users manual on the software and hardware included in the price?
- * The QL can offer you all this and much, much more. Don't let this offer slip by you!
 ff
 \$
QL TECHNICAL FUNDIES!!

I.E. now has QL Service manuals in stock. There are only a few, so take advantage of this special offer and get your copy NOW. This manual is a comprehensive technical guide that every serious computer addict should have, provided he knows a little about the inside of his QL.

Normal Price	R21.50
Special Price	15.00
P&P	2.00

It's just like having a technician in your cupboard!

QL GARDENER

For anyone interested in gardening, this programme is an absolute must! Or does your wife think that your computer is an unapproachable machine? Get her involved with this programme.

Using clear, graphic screens and a simple method of selection, you can specify up to 22 characteristics you would like your plant to have, including its site requirements, appearance, and growing habits. Then, just press a key to see all the plants that meet your requirements - the program selects from its own library which contains details of over 1100 species, extendable to suit your needs. Sound good? then don't hesitate! We have only got 2 in stock.

Normal Price	R49.99
Special Price	45.00
P&P	2.00



TALENT

TALENT has done it again! The following fantastic titles are coming into stock for the QL, and just look at the range of titles! The QL is at last getting a decent looking games selection, thanks to TALENT.

TITLE	PRICE	P&P
Assembler Workbench	87.00	2.00
Basic-Ally	69.99	2.00
Cartridge Doctor	55.00	2.00
Cosmos	55.00	1.80
GraphiQL	87.00	2.00
Jungle Eddi	55.00	1.80
Lost Pharaoh	55.00	1.80
Nemesis	55.00	1.80
Oxford Trivia	64.99	2.00
PCB No. 1	359.00	2.00
PCB No. 2	174.85	2.00
QDOS Trap Handler	55.00	1.80
Qimp	87.00	2.00
QL Toolset	69.99	1.80
RAM Disk, etc.	36.99	2.00
Screen Snatch	36.99	1.80
Sidways Printer	69.99	2.00
Strip Poker	55.00	1.80
Technikit	87.00	2.00
TechniQL	174.85	2.00
West	55.00	1.80
Zkul	55.00	1.80
Farmer	55.00	1.80
Horrorday	55.00	1.80
Wimp Designer	55.00	1.80
Life	36.99	1.80
Hoverzone	55.00	1.80

NOW IN STOCK FOR THE QL

NEMESIS
JUNGLE
EDDI
PCB DESIGNER 1
SIDEWAYS
Horrorday

AN IMPORTANT ANNOUNCEMENT TO ALL QL OWNERS

TITLE	DIGITAL PRECISION LTD	NORMAL PRICE	SPECIAL PRICE
Eye-Q		R115.99	R 99.00
Ultraprint		99.00	84.79
Superforth + Reversi		155.00	138.00
Turbo		350.00	307.00
Supercharge!		199.99	181.75
Cartridge media manager		89.99	77.94
The Editor (Sp. Edition)		159.00	138.00
The Editor		115.99	99.00

AREA RADAR CONTROLLER

A fascinating game and simulation. Control up to 69 aircraft in a bust air traffic zone which includes 2 airfields and 9 airways. don't run out of fuel and avoid collisions. CAN YOU HANDEL THE RESPONSIBILITY?

This game is ver addictive and very frustrating!

Normal Price	R35.00
Special Price	29.00
P&P	1.80

TRANSFORM LTD.

Sales/Purchase Ledger/Invoicing

TRANSFORM LTD.

Is your New Years Resolution to get your books into order, or to simplify your business book-keeping? Now is your chance to get the Software to do so! We are offering a range of very comprehensive programs which help you to control your finances day by day. Each program comes with a fully detailed pamphlet to help you along.

- * Written to run on both the ZX Printer and a full size 80 column printer
- * Will hold up to 50 accounts with 250 outstanding invoices. each can hold up to 200 items.
- * Can print both invoices and credit notes.
- * Microdrive compatible.
- * Also prints invoice/orders/credit notes
- * Prints statements/remittance notes/price lists
- * Program calculates discount/GST from built-in price list of 200 items
- * Program will also print your own company name and address
- * Fully compatible with all centronics printer-interfaces
- * Special set available for MICRODRIVE USE ONLY.

TITLES AVAILABLE:-

- Business Bank Account
- Invoicing
- Purchase Day Book
- Sales Day Book
- Sales/Purchase ledger/Invoicing *
- * MICRODRIVE ONLY



Each Title only costs R29.99
 Should you buy the whole set, then each title would only cost R25.00
 At these prices where else could you get a complete accounting system?



12.

BUSINESSMEN is this what you think of or say when you think about your books? Get rid of the problem and get yourself an ACCOUNTING PACKAGE FROM TRANSFORM!

THE GREAT SOUTH AFRICAN SURVIVAL KIT

THE SCENE: You're here in this wilderness with your Spectrum, QL, and instead of tuning in or tuning off, you're blowing up! Great zebra stripes or Tant Mollie's colourful paslappies appear before your eyes! what can you do?

THE SANCTIONS: You phone IE but they tell spares are becoming hard to get and it's easier to have a close encounter of your won kind with a CPU!

THE SOLUTION: Get yourself a GSTKET! The definition of a gasket: a very safe valve. There is nothing extra-terrestrial to this but down to earth common sense. Stockpile your own survival kit from IE BUT DO IT NOW! - sail with the Voortrekker and not the Tightpanic!

SPARES - MAIL ORDER SPECIAL ONLY!
 Only while stock last.

MEMBRANES

	SPEC	SPEC+	QL
Normal Price ea.	R28.50	R28.50	R32.48
2 Membranes @ P&P	49.00 2.50	47.00 2.50	49.00 2.50
3 Membranes @ P&P	67.50 2.50	45.00 2.50	57.00 2.50

SPECTRUM CPU

	Price	P&P
Normal Price each	R12.50	R1.00
Special for: 1	9.50	1.00
2	17.00	1.00
3	24.75	1.20
4	31.80	1.20
5	36.25	1.20
10	69.50	1.50

SPECTRUM FREQUENCY MODULATOR

	Price	P&P
Normal Price each	R27.50	R1.50
Special for: 1	22.50	1.50
2	40.00	1.80

THIS OFFER IS ONLY VALID UNTIL THE 20 OF JANUARY 1988



DURBAN SINCLAIR USER GROUP

P.O. BOX 10301 MARINE PARADE 4056

THE SPECTRUM PLUS 3 REVISITED

by Chad Mc Alister



Unfortunately I have still not had the opportunity to try out one of these machines for myself as yet, however I have obtained a little more information from magazines which I have read of late. By far the most important development is the new price for the PLUS THREE which is now a very reasonable £199 which should equate to approximately R 800 which will make it by far the cheapest computer with disc drive. The price of the discs have also been reduced to £2.99 which will be approximately R 12 which is cheaper than the price of a microdrive cartridge. These announcements were made by ALLAN SUGAR at the recently held ICM COMPUTER SHOW.

Further developments are that some good utilities are already available for the PLUS THREE these are MASTERFILE PLUS 3 and needless to say TASWORD PLUS THREE. I will give what detail I have on these packages a little later. Another development is that ROMANTIC ROBOT have made a multiface for the PLUS THREE which they have chosen to call MULTIFACE 3, which they claim will be able to put cassette based programs on to the built in disc drive. I will also report on this later on.

I must admit that with these developments I am a lot more confident of the potential of the PLUS THREE. I am sure that the support that was lacking when it was released at £259 will now be forthcoming as sales are now most certainly going to rocket.

Another positive aspect of the PLUS THREE is the fact that one no longer needs special printer interfaces nor do you need special control codes, simply plug in your standard printer and use the FORMAT command as necessary. The default mode is for tokens to be fully expanded - SINCLAIR keywords are printed in full and embedded colour codes which might act as printer control codes are screened out. The 64K RANDISC, as is also available on the PLUS TWO is also an excellent feature.

MASTERFILE PLUS 3

The claims of the new MASTERFILE are that it gives immense power, speed and flexibility compared with the original, yet it is easier to use. They claim that one will rarely need to refer to the 62 page manual. Features which have been added to those found on the original MASTERFILE are MERGE, FIELD CALCULATION, IMPORT, EXPORT, KEYED FILES, FIELD EDIT, TABLE LOOK-UP, DATE STAMP, AND VISUAL 96 COLUMN SCREEN/FORMS DESIGN. All in all this certainly appears to be an excellent filing system.

TASWORD PLUS THREE

There is not a lot of detail given about this program in their latest advert, but if TASWORD THREE (the program I use) is anything to go by then this can only be excellent.

MULTIFACE 3

ROMANTIC ROBOT have released an interface to transfer cassette based software to the PLUS THREE built in disc. They have aptly named it MULTIFACE 3. As was the case with MULTIFACE 128 it lacks the Kempston joystick port. There are two versions available, one without a through port at 44.95 and one with a through port at 49.95. If were buying I would opt for the one with the through port.

- Features of the MULTIFACE 3 are:-
- (1) it allows you to use the +3 disc from basic which you cannot normally do.
 - (2) it compresses files to save on disc space
 - (3) it allows the compression feature to be switched off to enable exact copies of memory to be made.
 - (4) it enables you to examine ALL memory locations of the +3
 - (5) it has all the print features of MULTIPRINT which are, freeze button - LIST program, COPY screens, LIPRINT, fully programmable - line feed - width - spacing - margins and various COPY types (text, hi res, shaded etc.
 - (6) it allows you to erase files
 - (7) it also has its own built in toolkit
 - (8) it is extremely user friendly

If can't FORMAT a disc and programs saved using it will not load without it being resident.

CABLE, CABLE WHO IS THE FAREST MONITOR OF THEM ALL?!

special cables have been made up for a variety of peripherals for your computers. These cables have been specially made up to free you of that mad muddle of bits and pieces in an effort to get your computer working properly.

The following cables are available:-

MONITOR CABLES	PRICE	P&P
RGB To a Cenelec Plug	R29.99	R2.00
QL Monitor cable	7.50	1.50
RCA to RCA (monochrome)	2.95	1.50
+2 to Monitor	12.50	1.50
+3 to Monitor	12.50	1.50

TO OTHER PERIPHERALS	PRICE	P&P
British telecom plug with cable with flying ends. Spec 128/QL	R19.99	R2.00
Networking cable	3.95	1.50
QL Joystick adaptor	23.00	1.50
Spectrum to T.V.	4.50	1.50
Spectrum to Taperecorder	5.50	1.50
MDV to interface 1	19.99	1.50
56 Way Extension (female/male to male)	33.00	2.00
Disk cable to int.	25.50	1.80
Opus Printer cable	26.50	1.80
Parallel IBM printer cable	19.99	2.00
Parallel 16 pin to 26 way plug (RS232)	22.00	2.00

WE CAN MAKE UP ANY CABLE TO SUIT YOUR NEEDS SEND A R10.00 DEPOSIT AND PIN-OUT DIAGRAM OF YOUR PERIPHERAL TO US AND WE WILL MAKE THE CALBE UP FOR YOU.

LATE SALE!

1 x Opus Discovery 1 Disk Drive with 15 Disks, both single sided and double sided, also Trans Express transfer tape. R550.00, Or nearest cash offer.
1 x Seikosha GP80A 80 Column Printer R300.00, Or nearest cash offer.
Phone Mr Frewin at (011) 7827764

SUPPORT THE NATAL DISASTER FUND!

All packages and letters going to Natal will be sent with the special Disaster Fund Stamps. We appeal to all Club Members to also support the Fund by buying these stamps for all correspondence to the club.

CLASSIFIED

FOR SALE: Casio Computer with mini tape-recorder and printer R320.00, Casio FX-6500G Programmable graphics calculator R170.00, ZX Spectrum with Beta interface and discdrive (636K) all cased in one case with fan, computer in a saga keyboard. software and games R620.00, One slimline shuggart discdrive R360K) R220.00. Phone Chris at:- (012) 468877

FOR SALE:- Protek 1200 modem (x2) at R150.00 EACH, Hewlet Packard 150 calculator R100.00 Tel:- (011) 7602376

FOR SALE: ZX Spectrum + and over 50 games R400.00, Dk'tronics programmable joystick interface R50.00, Dk'tronics speech synthesiser R50.00, Currah Microspeech synthesiser R50.00, ZX (Joystick) interface 2 R20.00, ZXLPrint III Printer interface R70.00, Multiface 1 R120.00, Rubber keyboard for spectrum R10.00, OR THE WHOLE LOT FOR R600.00 Tel: (011) 8257218 after 6pm.

Te Koop:- Seikosha GP500 AS Printer, insluitend 'n ZXLPrint III interface R350.00, ZX-Microdrive R100.00. Skakel Sydney (012)713022

BARGIN: Disc drive 1.6MB in case with power* supply included 9V for spectrum R450.00, Beta disc interface R120.00, Disciple disc interface R330.00, ZX Spectrum 48K R200.00 * = Brandnew. Phone Roysten, eve (011) 6484738 OR 6486519.

TE KOOP: Nuwe Casio FX-750 Personal Computer alle funksies en 2 ingeboude Fancard Slotte. Reeds 16K. Prys R180.00. Kontak Stiaan by (012) 709730 na 16 h 00.

FOR SALE: Amstrad CPC 464 with colour monitor 4 Books-on graphics, machine code etc. 25 excellent games. R1200.00. Tel 0132 24650

FOR SALE: ZXLPrint III Printer interface for Spectrum R100.00, Disc interface for spectrum R250.00, Disc drive R300.00. Phone Eddie (012) 3433884 all hours.

FOR SALE: spectrum 48K, Programming manual, 280 assembly language manual, basic reference manual. Tel Tinus 01521 2181 x 137 after 5pm.

TWO Star Gemini 10X available. Both relatively new as one is still on its original ribbon and the other on its second ribbon. Price R320.00 each postage paid (COD Parcel Post or Registered Parcel Post if cash up front) Owner moving onto C.ITOH printers. Phone Mike Norden Tel (0481) W 2237 H 4508

NOTICE BOARD

ODD ONE OUT!

I.E. has two stray programmes that would just love to find homes. The two programmes are THE KET TRILOGY for the DRAGON 32 computer, for the unbelievable price of R29.99, and CONVERSATIONAL GERMAN for the ATARI 400/800, for R39.99..... where can you get bargains like this?

AFRIKAANS / ENGLISH DICTIONARY CONT.

back-end processor	newerwerk
backtracking)	terugspoort, terugspooring
backup	dekkopie, dekking, rugsteun
backup file	deklêër
badge reader	kaartleeser
bar code	streepkode, kollekode
base table	basistabel
batch processing	batchverwerking
begin-sentence	beginlin
binary arithmetic operation	binêre rekenkundige bewerking
binary notation	binêre notasie
bit (binary digit)	bit (binêre syfer)
blank line	blanke reël
block	blok, fisiese rekord
blocking	saamblok, blokkering
BPI (bits per inch)	BPI (bitsse per duim)
buffer	buffer, buffergeheue
bug	fout
byte	groep
c	
CAD (computer-aided design)	rekenaargestuurde ontwerp
CAI (computer-assisted instruction)	ROD (rekenaargestuurde onderrig)
call	roep
call instruction	roepinstruksie
call sentence	roeplin
CAI (computer-aided manufacturing)	rekenaargestuurde vervaardiging
card reader	kaartleeser
case sentence	gevallin
cathode ray tube	katodestraalbuis (soos in 'n TV)
central processing unit (CPU)	sentrale verwerkingseenheid (SVE)
centralized control	entraliseerde beheer
chain	ketting
channel	kanale
character	karakter, teken
character constant	karakterkonstante
character data	karakterdata
character domain	karaktergebied
character expression	karakteruitdrukking
character operation	karakteroperasie, karakterbewerking
character set	karakterstel
character string	karakterstring
character variable	karakterveranderlike
check digit	kontrolewyfer
checkpoint/restart	kontrolepunt/hervatting
chip	vlakkie

I apologise for the errors that occurred in Last months CLASSIFIED section, The advert placed by L. Creighton for adventure games. The advert should have read LOST LAND, and not Lost House! Support local software - see advert placed in NOVEMBER NEWSLETTER for the other adventure mysteries offered!

IMPORTANT ANNOUNCEMENT

Now that the onus is on you the buyer to declair any sale that you conclude with us at your local Revinue office, please do not forget to include postage for your article! We notice that although people are including payment for the article that they are purchasing, some forget to include postage. To avoid any inconviences, PLEASE fill the order form in correctly.

Thank you



ROMANTIC ROBOT

presents Multiface 3

MULTIFACE +3

If you are a new owner of a +3, do not despair if all your software is on tape or microdrive! The MULTIFACE +3 will convert the whole lot for you in no time at all onto a disk. The MULTIFACE has the following additional features:-

- * Fully automatic and universal 100% back-up facility of ANY programme.
- * 8K RAM extension - full usable for data, machine code, etc.
- * MULTI TOOLKIT routines to study/modify/develop software
- * JUST TO NAME A FEW ADVANTAGES!

All at an amazing price of only **R195.00**
P&P **2.00**

ELECTRONIC GAMES ADAPTOR

The ideal stocking filler for your kids!
The games adaptor is :-

- * switchable polarity (positive and negative)
- * Input 240v AC-50Hz
- * output 6 9v DC: 2 vA
- * Double insulated
- * five-way jack connector to fit different electronic games and toys.
- * For games without an input socket you can connect directly to a pp3 battery compartment
- * Ideal also for calculators, radios, cassette recorders, etc
- * Produced to BS 415 Safty Standards

Normal Price **R49.99**
Special Price **35.40**
P&P **2.50**

REMEMBER do not forget those stocking fillers, come one, make those little faces shine with the joy of discovering that little thing that will mean so much! This month the Newsletter is filled with little things just to fit your pocket and to fill that stocking! Also take note that all post to Natal will be sent with the NATAL DISASTER FUND stamps. Show that the Club is a caring club and send all correspondance to the club or IE with these stamps. Help us to Help others.

Dust Destroys

Protect your valuable computer equipment with tailor-made vinyl dust covers

Send a SAE or telephone for prices on DOZENS of other dust covers available but not listed here.

For long lasting, good looking equipment, you need the right protection. Dust covers are the answer. I.E. is getting the following dust covers for the following computers and printers, at low, low prices!

Type	Price
Amstrad Pc1512 Sc, Proc + Keyb (2pc)	R33.75
Bondwell 32/34/36 + Mono Mon (2pc)	36.99
Bondwell 32/34/36PC + Col Mon (2pc)	37.50
Bondwell 35/39 Colour monitor (2 pc)	36.99
Bondwell 38/39 Mono (2pc)	34.99
Citizen 120-D	14.99
Citizen HQP-45	19.99
Epson DX-100 Printer	21.00
Epson EX-800 Printer	18.99
Epson FX-80/85 with tractor feed	21.80
Epson GQ-3500 laser Printer	25.99
Epson LX-800 Printer	14.99
Epson LQ-800 Printer	16.99
Epson LQ-800 + Tract Fed	18.99
Epson LQ-800 + Cut Sh Fd	23.99
Fujitsu DX-2200 Printer	19.99
IBM PC/XT	
Sc, Proc + Keybd (2pc)	37.99
Sc, Proc + Enhanced Key (2pc)	37.99
P.C. Screen, swivel, Proc + Keyb (2pc)	39.99
IBM AT	
AT Sc Proc + Keybd (2 pc)	39.99
AT Sc, Proc + Enhanced Keybd (2 pc)	39.99
ICL PC 1000 (PLEASE STATE SCREEN TIPE)	
Sc, Pro + Keybd (2 pc)	39.99
Olivetti M24 Sc, Proc + Keybd (2 pc)	35.69
Riteman 15 Printer	19.99
Riteman F + Printer	19.99
Seikosha BP 5420 Printer	27.99
Seikosha MP 5300 A	19.99
Seikosha SP 180 Printer	16.99
Seikosha SP 1200 Printer	16.99
Seikosha MP 1300 Printer	18.99
Star Gemini 10X/Delta 10	18.99
Star NL-10	16.99
Taxan Vispal Colour Monitor	26.99
Thompson Monitor	20.99
Spectrum +	14.99
Spectrum + 2	14.99

5 THESE SURE ARE THE IDEAL GIFT!



ORDER FORM

NAME _____ TEL _____ MEMBER REF #: _____

ADDRESS _____

To: INFORMATION ENTERPRISES, PO Box 35644, Menlo Park, 0102

DESCRIPTION	PRICE
-----	R _____
=====	=====

PLEASE ASK FOR IE's CONDITIONS OF SALE

SUBTOTAL: R _____

12% GST : R _____

* POSTAGE : R _____

TOTAL : R _____

* POSTAGE & PACKAGING All items registered for your protection. Remember to take your ID to the P.O. Insurance 50c extra per item. First price in () is for surface mail, second for air mail.

* SOFTWARE:

1 TAPE (R1.15, R1.50); 2 TAPES (R1.50, R1.85); 3 OR MORE TAPES (R2.30, R2.80); PACKS (R1.85, R2.30)

* HARDWARE:

INTERFACES (all) (R1.85, R2.30); DISC DRIVE (R5.90, R9.00); EXPANSION PACK (R3.45, R5.75); A4 PRINTER (R8.00, R13.80); TIMEX PRINTER (R4.45, R5.90); JOYSTICK (R1.885, R2.30); MONITOR (R8.00, R10.50); QL (R8.00, R14.50); SPECTRUM + (& 128K 2+) (R5.70, R8.25); PARTS: MEMBRANE (R2.30, R2.80); ALL OTHER PARTS (R1.85, R2.00); KEYBOARDS (all) (R1.85, R3.45).

You can have goods freighted - price on application.

HOW TO ORDER FROM I.E.

ARE YOU ONE OF THE LITTLEIES THAT IS NOT QUITE SURE HOW YOU SHOULD GO ABOUT THINGS WHEN ORDERING?

Here's what to do.

Fill in the order form which is to found on the back of the Newsletter, or a reasonable facsimile.

When filling in your order, please do not forget to fill in all details such as POSTAGE AND GST. Now add the whole lot together in a very ordinary addition sum, and include payment for the whole Grand Total. Payment can be made in POSTAL ORDERS OR WITH CHEQUES which are to be made out to INFORMATION ENTERPRISES.

We will also gladly send your goods POST OFFICE CASH ON DELIVERY. Please note that this must be stipulated either on your order, or you can order COD Telephonically. NO COD ORDER CAN BE CANCELLED ONCE PLACED. Also please note that there is a R2.40 Post Office charge for the service and the Post Office also charges a 1% levy on the Grand Total once the R2.40 has been added. If you order COD you will have to pay these charges. Another condition for if you order your goods COD is that should you refuse the goods when they arrive, then you will have to pay the cost involved for the postage to and from your Post Office back to our Post Office.

P.S. THIS IS FOR BIGGIES AND OTHERS WHO ARE NOT SURE HOW TO ORDER.