

November 82

#### SPECIAL OFFERS

TOOLKIT 2 + Mini EPROM board (kit)	£32.95
CODEKIT + mini EPROM board (kit) to 31/12/82)	£21.95
BASIC 5 + mini EPROM board (kit)	£32.95
BASIC X + mini EPROM board (kit)	£32.95
SOUND/VIA Board - BASE, SOUND, 2xVIA KITS	£54.95
Add £5.00 to above offers for built Mini EPROM board.	

#### DISKS DISKS DISKS DISKS

All diskettes are 5.25in single-sided single density TOP QUALITY, fully guaranteed. (We use them all the time!) Remember that the prices quoted for PREMIER disks include VAT! If you buy ten diskettes from Premier, you get labels, write protect tabs and a strong, smart disk case absolutely free

BASF or NASHUA DISKETTES each	£1.95
in tens	£17.95

#### CANON DISK DRIVES

SINGLE SIDED DRIVE	£199.95
DOUBLE SIDED DRIVE	£239.95
TWIN DISK DRIVES	£379.95
SMB HARD DISKPOA	

#### POSTAGE AND PACKING - SOFTWARE 85p per order

HARDWARE KITS- £2.00 per item (Max £10.00)
EPROMS (if ordered alone) - 95p
PRINTERS - at cost, please ring
DISK DRIVES - £9.50
BOOKS - 95p per book, max £3.00
VDU MONITORS - £9.50

Maximum postage (U.K. Mainland) is £10.00 (printers, disk drives and VDU's excepted). All hardware and firmware sent Recorded Delivery or Registered, unless otherwise stated above. Goods not despatched if insufficient postage included - if in doubt ring us for a quote before ordering. Despatch is normally 5 working days after receipt of order, but Credit Card orders sent same or next day (stocks permitting)

OVERSEAS - send English postal rates (see above) but DON'T remove VAT - we'll balance postage against the VAT free price and refund the difference. Minimum overseas order is £25.00 sterling. Goods only sent Airmail if sufficient postage enclosed.

Other products are under development. Details available in our periodical newsletter which is sent free to our regular customers. Phone service available for enquiries on MONDAY nights 7 - 9pm (only) on 01-659-7131. Or ring any time during normal office hours Mon to Fri 9.15 to 6p.m. (Wed 1pm). Sat 9am - 4pm. We would prefer technical enquiries between 4-6p.m.

REPAIR SERVICE available against £35.00 deposit - ring or consult our latest newsletter for details. NO repairs carried out on 32x48 modified machines unless video working.

PREMIER MICROSYSTEMS regret that due to the vulnerability of computer software/firmware, we cannot refund money OR exchange against other goods. This price list supersedes all previous lists.

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ALL PRICES INCLUDE VAT (@ 15%)

E & O.E.

#### PRICES ----- AVAILABILITY ----- SUITABILITY

for UK101 and OHIO machines

#### Key to Abbreviations

*	immediate availability
SEK	Needs PREMIER Screen Enhancement Kit
U	Under development
TBA	To Be Announced
POA	Price On Application.
Ceg	CEGMON must be resident
B5	BASIC 5 required
B5N	BASIC5 or Normal versions available (Normal versions usually for UK101 only - see catalogue)
B1/3	needs new BASIC 1 and/or 3 to run
P	Should run on CIU in top of screen, if top left hand corner screen address is around 53260.

PREMIER PUBLICATIONS  
208 CROYDON ROAD  
ANERLEY  
LONDON  
SE20 7YX  
01-659 7131

PRODUCT	PRICE	INC	UK101	SB	24X24	CIU	CIE	SB 3
SARGON II CHESS (tape)	£29.95	*	*	*	*	*	*	*
SARGON II CHESS (disk)	£29.95	*	*	*	*	*	*	*
SNAKE (m/c)	£7.95	*	*	*	*	*	*	*
MASTER PACK 3 (B5)	£8.95	*	*	*	*	*	*	*
MASTER PACK 4	£8.95	*	*	*	*	*	*	*
MASTER PACK 5	£8.95	*	*	*	*	*	*	*
MASTER PACK 7 (B5N)	£8.95	*	*	*	*	*	*	*
MASTER PACK 8	£8.95	*	*	*	*	*	*	*
MASTER PACK 9	£8.95	*	*	*	*	*	*	*
MASTER PACK 10 (B5N)	£8.95	*	*	*	*	*	*	*
MASTER PACK 11 (B5N)	£8.95	*	*	*	*	*	*	*
MASTER PACK 12	£8.95	*	*	*	*	*	*	*
MASTER PACK 13 (B5N)	£8.95	*	*	*	*	*	*	*
MASTER PACK 14 (B5)	£8.95	*	*	*	*	*	*	*
Space Rover (B1/5)	£6.95	*	*	*	*	*	*	*
Arrowise (B5)	£5.95	*	*	*	*	*	*	*
Voy Of Nostromo (B1/5/32x48)	£6.95	*	*	*	*	*	*	*
Adventure Plus (16K)	£9.95	*	*	*	*	*	*	*
Compact	£8.95	*	*	*	*	*	*	*
R.L.S.F.H. (Ceg)	£9.95	*	*	*	*	*	*	*
Angling (32 x 48)	£6.95	*	*	*	*	*	*	*
Sheep Pen	£4.95	*	*	*	*	*	*	*
Martian Rescue	£6.95	*	*	*	*	*	*	*
Empire Battle	£4.95	*	*	*	*	*	*	*
Turnemup	£4.95	*	*	*	*	*	*	*
Tank Battle	£4.95	*	*	*	*	*	*	*
Bomber Defense	£4.95	*	*	*	*	*	*	*
FLOPTRAN	£14.95	*	*	*	*	*	*	*
FINCAL	£9.95	*	*	*	*	*	*	*
Cartoon Caper-ability (Ceg)	£9.95	*	*	*	*	*	*	*
Cartoon Caper-ability (Disk)	£12.95	*	*	*	*	*	*	*
U.F.O.	£4.95	*	*	*	*	*	*	*
Asteroids	£6.95	*	*	*	*	*	*	*
Maze Chase	£5.95	*	*	*	*	*	*	*
Executive Jigsaw	£6.95	*	*	*	*	*	*	*
Square Solitaire	£6.95	*	*	*	*	*	*	*
Nine-in-a-line	£5.95	*	*	*	*	*	*	*
INVADERS	£7.95	*	*	*	*	*	*	*
KAMIKAZE INV.(32x48/B1)	£6.95	*	*	*	*	*	*	*
Roulette	£6.95	*	*	*	*	*	*	*
Super Fruit Machine	£5.45	*	*	*	*	*	*	*
Twixt Twister	£5.45	*	*	*	*	*	*	*

Math Games Pack	£9.95	*		P	
Challenge	£5.45	*	*	P	
Number Matcher	£5.45	*	*	P	
Challenge & No Matcher	£7.95	*	*	P	
Spelling Test	£5.45	*		P	
Math Exerciser	£5.45	*		P	
Spell Test & Math Ex.	£7.95	*		P	
Flak	£5.45	*		P	
Splat	£4.95	*		P	
Break In	£4.95	*		P	
Warp War	£5.45	*		P	
Break In & Warp War	£7.95	*		P	
Scientific Pack	£12.95	*		P	
Time Maze	£5.45	*	*	P	
Air Traffic Control	£5.45	*	*	P	
Time Maze & A.T.C.	£7.95	*	*	P	
Wipeout etc	£6.95	*	*	P	
Codebreaker	£4.95	*	*	*	*
Scrambler	£4.95	*	*	*	*
Calendar etc	£4.95	*		P	
Games Scoreboard	£4.95	*		P	
Binary Dec Hex Converter	£4.95	*	*	P	
Alphabetical Sort	£4.95	*	*	*	*
Cribbage	£9.95	*		P	
Cribbage/B4	£9.95	*		P	
Cribbage on disk	£11.95	*		P	
- Catacombs (B5N)	£7.95	*	*	*	*
Life	£7.95	*		*	*
Lively Lissajous	£7.95	*		*	*
Alien Stronghold	£5.95	*	*	P	
Deadly Triangle	£5.95	*	*	P	
Alien and Deadly	£7.95	*	*	P	
Twogether	£4.95	*		P	
Kamikaze Speedway	£4.95	*		P	
- House of Horrors	£9.95	*	*	*	*
- Caverns of Doom	£9.95	*	*	*	*
- Dungeon of Death (16K)	£9.95	*	*	*	*
- The Tower (16K)	£9.95	*	*	*	*
ESCAPE (16K m/c Adv Ceg)	£9.95	*	*	*	*
ESCAPE (Ceg disk)	£11.95	*	*	*	*
Star Base Attack (Ceg/B3)	£5.45	*		P	
Stock Exchange (Ceg)	£6.95	*		P	
Supermind (Ceg,02)	£5.45	*		P	
Table Tennis & Football	£5.45	*		P	
Breakout	£5.45	*		P	
 FORTH disk (5.25)	£49.95	*	*	*	*
FORTH disk (8in)	£52.95	*	*	*	*
VORTEX	£49.95	*	*	*	*
ROMDOS	£19.95	*	*	*	*
LINK 65 / LINK 6	£17.95	*	*	*	*
SCOPYM	£9.95	*	*	*	*
BASIC 5					
 EPROM disk (Ceg)	£19.95	*	*	*	*
	£19.95	*	*	*	*
 WORD WIZARD I and III					
cassette (WWIII)	£19.95	*	*	*	*
EPROM (WWI)(not MON02)	£21.95	*	*	*	*
EPROM (32 x 64 SEK)	£21.95	*	*	*	*
disk (WWII)	£24.95	*	*	*	*

TOOLKIT II for 101/OHIO	£19.95	*	*	*	*	*	MON01	MON02
CEGMON	£17.25	*	*	*	*	*	MON01	MON02
Extended Monitor (EPROM)	£19.95	*	*	*	*	*	MON01	MON02
BASIC 1 & 3	£17.25	*	*	*	*	*	MON01	MON02
BASIC 4 (Ceg,MON02 only)	£13.95	*	*	*	*	*	MON02	MON02
BASIC X	£19.95	*	*	*	*	*	MON01	MON02
ENCODER	£24.95	*	*	*	*	*	MON01	MON02

## HARDWARE for UK101 and OHIO

	KIT	BUILT	Availability
Mini EPROM board	£17.95	£22.95	*
Dynamic RAM card	n/a	£69.00	28 days
Screen Enhancement Kit	£59.95	£69.95	*
SPRITE GRAPHICS BOARD	£TBA	£TBA	*
Sound/VIA Board BASE Kit	£24.95	£29.95	*
Sound Kit	£11.95		*
VIA Kit	£9.95		*
Floppy Disk card	£49.95	£67.50	*
J1 Buffer Board	£19.95	£29.95	*
RS232 Kit		£6.95	*
RAM 2114 (300ns low power minimum spec.) for UK101/OHIO/MICROTAN/ACORN ATOM			
4K	£10.00	*	
8K	£19.00	*	
16K	£37.00	*	

#### VIDEO MONITORS

VM 1	12" BLACK & WHITE	£72.95	TROE - DODDAN GIA STATION
VM 2	12" GREEN	£82.95	ALPHABET
VM 3	9" HIGH RES B & W	£98.95	CHARTS
VM 4	9" HIGH RES GREEN	£105.95	CHARACTER
VM 5	9" HIGH RES ORANGE	£115.95	VOCABULARY

## PRINTERS

PREMIER DAISYWHEEL	£895.00	EPSON - Serial Interface & Board	£POA
EPSON MX70 (Parallel)	£275.00	EPSON - TRS80/VG	£65.00
EPSON MX80 III (Parallel)	£369.95	EPSON - TRS80 with Expansion box	£30.00
EPSON MX80 F/T 3 (Parallel)	£409.95	OKI80 - RS232 Serial interface	£POA
OKI 80 (Parallel)	£329.00		
Microline Range	POA		
OKI 82A	£445.00		
Any other make to order			

NOTE that printer prices are affected by the current dollar rate. Please phone for price confirmation.  
We try hard to beat any advertised price !!

#### SPECIAL UK101/OHIO DISK PACKAGES

PACKAGE 'A' Floppy disk Card (kit), Drive, Cables, VORTEX, P&P	£303.9
PACKAGE 'B' F.D.C (built), Drive, Cables, VORTEX, P&P	£319.9
PACKAGE 'C' same as 'A', but double sided drive	£359.9
PACKAGE 'D' same as 'C', but double sided drive	£369.9
PACKAGE 'E' F.D.C.(kit), cables, VORTEX, dual drives, VORTEX	£479.9
PACKAGE 'F' F.D.C.(built), cables, VORTEX, dual drives, VORTEX	£479.9

## RS232 correction!

The last paragraph of the RS232 article in the March'82 newsletter refers to J2 pin 4. This should be U67 pin 8.

## MORE BOOKS

We can now offer the following books, in addition to those listed in the March'82 newsletter.

Scanlon	6502 Software Design (HIGHLY RECOMMENDED)	9.95
De Jong	Programming & Interfacing the 6502, with experiments	11.50
Holland	Advanced 6502 Interfacing	7.95
Lancaster	TTL Cookbook	8.50
Turner	Getting Acquainted with the IC	4.50
Bates	The Computer Cookbook	6.95
Waite	Computer Graphics Primer	10.95
Staugaard	6809 Microcomputer Programming & Interfacing	10.95
Brodie	Starting FORTH	11.95
Derossi	Learning BASIC Fast	10.95
Helms	Computer Language Reference Guide	4.95

In addition to the above, we are still trying to obtain the SAMS OSI workshop manuals - no luck so far!

## KSR / MSR / ASR PRINTERS

We have no MSR (tape) printers left, but we do have quite a few KSR's for immediate collection. We also have a few ASR (paper punch/reader) printers left (again for immediate collection) which we are offering for the KSR price - £175.00 - first come first served!!

## LINK 65

Contrary to the information given in the March'82 newsletter, LINK 65 does not need CEGMON resident to run.

## CEGLINK 2

A machine code/BASIC version of the CEGMON linker for 6502 users is now available from Premier. It features warm start correction, high speed execution, is self-locating, clears screen without reboot correction, and will work with the UK101/CIE/CIU and the original Superboard. PRICE £4.95 (SPECIAL OFFER)

## STOP PRESS STOP PRESS

### SARGON CHESS

We have been informed by our distributors that supplies of SARGON II are on their way over from the States. As we have to modify the program on arrival to make it run with all the different screen/keyboard formats, there will be a short delay before orders can be despatched. As this program is the best game we have yet seen for the UK101/OHIO, it will receive top priority from our programmers!

REMEMBER that if you wish to order the program and wait for delivery, you should enclose a separate cheque for SARGON II if you order anything else. Your cheque will not be cashed until the version you ordered is available.

### SOUND/VIA BOARD

This board is now fully available. Details in our NOV'81 newsletter.

### ADVENTURES

Our four original Adventure programs are now all supplied with the operating system FREE, so you do not need to buy House of Horrors to enable you to run Caverns of Doom, Dungeons of Death or the best one, The Tower.

Our machine code Adventure is coming along nicely, and will run in 8K. It has yet to be named.

### PREMIER ADVERTS

We know that a lot of customers follow our progress between newsletters through our magazine adverts, usually in Computing Today. If you look in the April issue of C.T. and count the spelling errors their typesetters have made in our advert, and the awful layout they have used, and add to that the fact that they ignored all the corrections they were told to do to put matters right, you will appreciate why C.T. have probably lost around £10K p.a. worth of business from Premier!

We haven't decided which magazine to use regularly next - we'll keep you informed.

### FLOPPY DISK CARD

Interest in this card is enormous - even greater than the SEK! The current state of play is that the artwork has been completed and we are awaiting the boards (top quality, through-hole plated) from our manufacturers. Delivery will be towards the end of March. Customers who bought our SEK and experienced a lengthy wait should note that the F.D.Card is totally an in-house product, thus totally eliminating the causes of the SEK delay.

Users who have the OHIO 610 board and want to purchase our Disk Drives should note that they will still need a Data Separator as this is not on the 610 board. Premier will be releasing one soon. No price fixed yet.

### CORRESPONDENCE

If you wrote to Premier around November last year with a query and have not received a reply, please contact us again. It seems that during our move to new premises, a box containing letters to be answered was lost!

### CREDIT CARD ORDERS

Premier are happy to accept Access and Barclaycard either by telephone or letter. However, please note the following:-

- a/ You must quote the CARD address when ordering. Neither credit card company will allow us to send goods to an alternative address.
- b/ If your order is refused by Access or B/card, they will NOT tell us the reason why, so please quote the number and address carefully.
- c/ If you order by phone, you cannot collect in person! (Their rule, not ours!)

## SPRITE BOARD

Design of this board and its accompanying software is complete and it makes very interesting reading! The board will operate in 4 Modes as follows:-

MODE1 Text mode of 40 x 24.

Redefinable characters

Inverse text available

MODE2 Sprites (32 layers, up to 255 Sprites!)

Redefinable graphics

32 x 24 text

Chunky Colour Graphics

MODE3 HIGH RESOLUTION GRAPHICS (16 colour) 256 x 192

Hi-res mixable with Sprites!

MODE4 Sprites

64 x 48 resolution

The board gives a full 16 colour 256 x 192 display with the facility for coloured text, coloured back/foreground/border etc. The Extended Colour BASIC software supplied with our SPRITE board (in EPROM on board) is superb and will enable the user to make the most of his/her acquisition. New words include:-

CLS	CLSN	COLOUR	COPY	INK	LINE	MODE	PLOT
PANEL	PUTAT	SPRITE	UNPLOT	SHAPE	SHAPE*	SIZE	

Sprites may be moved smoothly and easily across the screen in any of 16 colours. Their size may be altered with the SIZE command, their shape with two SHAPE commands. A special COPY command allows BASIC 5 commands to be transferred through to the new screens! A Sprite replotted on its layer automatically wipes its old shape, making games design so much easier.

The Premier Sprite board requires CEGMON to be resident and a different CEGMON (CEGMON 'S') is required to enable it to function properly. Owners who already have CEGMON can swap for a new one for just £5.00. If you are buying the Sprite board but do not have CEGMON, then order CEGMON S too!

Connection of the Sprite board is via the 40 pin expansion socket and there are NO MAIN BOARD MODS required. The board and extended BASIC takes the area of memory starting at E000 with a few scratchpad locations in low memory. The board is high-density and construction should only be attempted by competent builders.

The Sprite board will become available shortly at the following prices:-

SPRITE BOARD (kit)	£99.95
SPRITE BOARD (built)	£115.95
CEGMON 'S' exchange	£5.00
CEGMON 'S' outright purchase	£15.00
Postage and packing	2.50

Orders are invited immediately (we're finding it hard to stop you!!!) but delivery will NOT be immediate!

## DYNAMIC RAM CARDS - sorry sold out!

NEW SOFTWARE - FROGGA (32x48 UK101/CIT) frogs leaping onto logs & turtles.  
BASIC/Machine code hybrid - very fast popular game £5.95

- RAIDER (BASIC 5) bomb buildings & fuel dumps, lazer-zap missiles. £5.95

- SNAKE (32x64 or 16x48 or 24x24) full machine code, very fast, almost unplayable  
at fastest speed!. Price as price list

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## HI - RES COLOUR PROGRAMMABLE CHARACTERS

Three new boards will be available soon from PREMIER. All are working in prototype form and the PCB boards will be in production shortly. All are plug-in - no board butchery. Below are some details.

### HIGH RESOLUTION GRAPHICS (HRG) BOARD

$$32 \times 48 = 256 \times 384$$

This board will give the astonishing resolution of 512 x 256 (on a 32x48 screen), all individually addressable. This gives you a mere 131,072 dots to choose from! The board comes complete with its own RAM and needs none from the machine to operate. Hi-res graphics may be mixed on-screen with the normal UK101/OHIO set, without either affecting the other. Text can be scrolled at will, leaving the hi-res display stationary - this is standard, not a clever piece of software! The hi-res display can be cleared, leaving the text still on display too!

### PROGRAMMABLE CHARACTER GENERATOR (PCG)

Release of this board has been held back to ensure that it would work with the HRG and Colour boards - we'd look rather silly if it didn't!

The PCG offers 256 programmable characters and room on-board for two additional character generators in EPROM. Altogether, eight combinations of EPROM/RAM graphics are available and these can be selected via one BASIC POKE! The supplied RAM chip for the programmable graphics is 2716 compatible and options allow for battery back-up, thus allowing a graphics set to be retained during switch-off.

Powerful development software is supplied with the PCG, allowing the user to develop new CHR\$ with ease. Facilities allow inversion, mirroring, deletion, copying and even rotation via single keystrokes. The board is addressed \$E800-E8FF. The board requires a J1 outlet (main board expansion socket).

### COLOUR BOARD

PREMIER have seen several COLOUR boards and have not been particularly impressed with any of them - their main fault being that they work fine on one make of TV and look lousy on another! After extensive appraisal, we have accepted a design which uses a brand-new modulator design to overcome the above problem.

The PREMIER Colour Board gives 16 foreground and 16 background colours, all selectable from program. The standard of the colour display is superb - the best, most stable and well-defined colour we have ever seen. The board uses NO user-RAM, but you do lose your top 32 CHR\$ graphics when using the colour output (but with our PCG, who cares.....?). These 'lost' slots are still viewable via your normal video output.

\*\*\*\*\*

Delivery of these boards is expected in September and the price of each unit should be around £49.95. Advance money will NOT be accepted, but enthusiastic customers may send in an SAE marked either HRG, COLOUR or PCG and we will send further details/delivery date when available.

From the response we have already had from customers who have heard about these boards, we know that they are going to be very popular and eagerly awaited. May we make one plea - please don't ring for information UNTIL you have received further details by letter as every enquiry inevitably slows production down!

All the boards will be on display at the PCW show at the Barbican in Sept - please ask for a demo. EPROM software to enhance the HRG and Colour boards is under development. No firm details yet.

## SAFESPOT SAFESPOT SAFESPOT

This graphics-based adventure game is now available. It requires an 8K UK101 or SEK-equipped Superboard, and BASIC 5.

### VOYAGE OF NOSTROMO (B5)

A new BASIC 5 graphics game for any CEGMON based 32x48 UK101 or SEK-equipped HIO. Written partly in machine code for fast graphics, Voyage of Nostromo requires skill and determination to achieve the set 'goal' of reaching the Star Base. The 32x48 graphics generated by this game are outstanding and steering your craft through the universe becomes progressively more difficult as the course open to you becomes more and more restricted.

PRICE £5.95 (+75p P&P) (needs BASIC 5, CEGMON + 32x48 or SEK)

## K S R PRINTERS

Supplies of the MSR (tape-based) printers have dried up, with little chance of obtaining any more. The KSR and ASR remain on sale at £175.00, but stocks of these are diminishing too. We advise would-be purchasers to contact us swiftly to avoid possible disappointment.

### A CASE FOR YOUR UK101/OHIO

PREMIER can now supply the best case you can get ANYWHERE for your computer. It has been designed by a frustrated UK101 owner fed up with wires, drives and expansion draped all over the table. The case is made of strong steel with a tough textured black finish. A unique and tremendously useful feature is that the case is hinged across the middle of the top cover to allow easy access to the keyboard or drives. The top cover can also be removed completely in a few seconds if necessary. Ventilation slots are provided as are mounting holes for a fan. The rear is pre-punched for mains input, on/off switch and three sockets.

The fixing for the UK101/OHIOs is such that the keyboard section is supported and held at five points to help eliminate troublesome keyboard flexing.

The case will house two 5.25 or 8" disk drives, power supplies, racks, expansion modules etc. and still leave room for further expansion. It goes without saying that the case will accommodate the heaviest of televisions or VDU's!

SIZE approx. 21" wide x 24" deep x 8.5" high at rear.

As supplied, the keyboard cutout is for the standard UK101. SUPERBOARD cutouts can be supplied for an additional £3.00. We regret that we are unable to supply cutouts to special order below the quantity of 100 off. There is ample space for a numeric keypad. The cases are also pre-cut for 2 x 5.25" drives. Blanking plates are supplied for owners who have not yet expanded to disk.

A special version for owners of our 32K Dynamic RAM card (or the AUDIO COMPUTERS card) is available for a small extra charge.

We are highly impressed by this case. It is very attractive, and will house all your expansion which will remain extremely 'accessible'. Please allow at least 28 DAYS for delivery.

## PRICES

Standard Case (UK101 keyboard)	£86.75
Standard Case (OHIO keyboard)	£89.75
with Dynamic RAM cover - extra	£4.00
Post and Packing, Insurance	£5.50

## DAISYWHEEL PRINTERS

Premier can now supply first-class daisywheel printers for only £85.00. Their print quality is little short of astonishing (well up to 'book' standard), - this leaflet was printed using one. A wide variety of printwheels is available, and changing wheels takes only a few seconds, as does ribbon replacement. RS232 interface is standard and proportional printing is possible under software control. This mailout has been printed using one of daisywheels. More details and a sample printout can be supplied on receipt of an SAE marked 'Daisywheel'.

## DYNAMIC RAM CARDS

These cards have proved to be extremely popular - not surprising when for £69.00 you get 32K of reliable memory! As stated in our last newsletter, the card plugs into your 6502 socket, with the 6502 being placed on the new board. This means that you will need a small clearance between your case and the socket.

The supplied card is extremely densely packed and many customers have had problems in construction. On the strong advice of our suppliers, we are therefore supplying the boards BUILT and TESTED only - no kits. We are not doing this to make more money, but because these boards require extremely careful construction, and are very difficult to fault-find if they fail to work after building. Allow 28 days delivery on this item.

PRICE Built & Tested £69.00 (+1.50 P&P)

## MENU 9 MENU 9 MENU 9

With MENU 9 you can have up to nine BASIC programs in your computer at once! Simply load them in from cassette, and store them into a named 'hold' area of RAM with a few keystrokes. Programs can then be called and auto-run almost instantly, giving a 'disk-like' access to programs.

The stored programs can be as large or small as you wish (depending on available RAM) and can contain the same line numbers and variables! If you have purchased our 32K RAM card, but not our disk system, MENU 9 will revolutionise your program access capabilities.

MENU 9, a machine code program, needs a mere 500 bytes of memory space. It is available for CEGMON and MON02 monitors only. Please state which when ordering. £7.95. Availability is immediate.

## WORD WIZARD 3

Our popular Word Processing package is now being relocated to start at 0250hex, thus allowing more text space and enabling users with more than 8K to utilise all the available memory for text. We have also put back the messages which are abbreviated by our new BASIC 4. Customers wanting an upgrade should return their original WW cassette plus £2.00 service charge. When returning your cassette, please state your screen size. Return of the upgrade cassette may not be immediate - it depends whether your version has been relocated!

If you have an OHIO 32x48 machine, please also state your keyboard type (PRINT PEEK(57100) and tell us the result), and the first visible screen address - probably 53248 or 53260. Without this information, supplying the correct WW3 is impossible!

## O S I D E A L E R

Premier Publications are happy to announce that we are now full OSI dealers and will shortly be able to supply their full range of software and some of the hardware. The details are still being finalised at the moment, so we are not yet in a position to give a list of prices.

However, we are able to list some of the products that we will be selling and this is shown below. If you wish to order something from this list, please send in your order (NO MONEY), plus an SAE and when the required item becomes available, we will notify you. There is of course no obligation to buy.

OS65D Version 3.3 - OSI Disk Operating System, latest version, not generally available in this country. Modified by PREMIER to link with CEGMON and SEK. Comes as a five-disk set with extensive documentation!

MDMS (Data Base Management System)

CIP Users Manual - also relevant to UK101 owners

CIP Service Manual - diagrams very relevant to UK101 owners!

C4P Users Manual and C4P Service Manual

Assembler/Editor - disk or cassette versions with full documentation

OSI BASIC Reference Guide - an extremely useful guide to ROM and Disk RAM BASIC

## PREMIER DISK SYSTEM

All items in our system - single and double drives, cables, Floppy Disk Card, ROMDOS, etc are available ex-stock from PREMIER below are some 'package prices'. They all include VAT and Post and Packing.

SPECIAL PACKAGE 'A' - Floppy Disk Card (kit), Drive, Cables, ROMDOS, P&P	£303.95
SPECIAL PACKAGE 'B' - Floppy Disk Card (built), Drive, Cables, ROMDOS, P&P	£318.95
SPECIAL PACKAGE 'C' - same as 'A' but dual drives	£449.95
SPECIAL PACKAGE 'D' - same as 'B' but dual drives	£464.95

## R E P A I R S      R E P A I R S      R E P A I R S

The number of repairs received by us in the last few months has been astronomical and we apologise to customers who have had a long wait. We do not wish to suspend this service as it is obviously much-needed by our customers, but we do feel that we need to change the rules slightly as the backlog of repairs is now seriously hampering our development schedule. So from now on (June 1st 1982), the following applies.

All conditions given in the March 1982 Newsletter Page 24 apply except number two, which is replaced by:-

A cheque for £35.00 MUST accompany the repair and this covers repair and return postage. A repair will not be put on the waiting list until this money is received. The minimum repair charge will be £15.00 excluding return postage costs. If the bill looks like coming to more than £35.00 we will contact you - please include a HOME telephone number if possible as this considerably speeds communication and repair turn-round time.

Repairs can take a long time, and if we were to charge a realistic price, charges of £50.00+ would be normal as the 'going rate' for an engineer is around £15 an hour in the London area! Many of the returned kits have had to be stripped down and completely rebuilt, costing the customer more than if he had bought a built item in the first place!

Two last pleas. Please label anything that is returned and state in the accompanying letter what you have removed before sending. Also, please try not to phone us too often to ask whether your repair is ready - the time spent doing this slows down repairs as the relevant engineer has to be found, plus the repair documentation - it all takes time!

CURRENT TURNROUND ON REPAIRS IS 6-8 weeks (and slowly increasing).

S. Our last competition certainly stirred up customer reaction! Many customers wrote to tell us the program couldn't possibly do what it was doing (although it plainly did it!!). The complaint that "it can't be disassembled!" also appeared frequently. The solution and some interesting little-known information about the 6502 chip will be revealed in our next newsletter.

<C> 1982 Premier Publications/Premier Business Systems

June 82

(2)

## INTERMEDIATE MAILOUT

This mailout is supplementary to our last newsletter. It is being sent to most of our 'active' customers - the 'L' on the envelope does not apply this time! The mailout contains details of products which just missed our last newsletter.

We are pleased to announce a new recruit to the Premier staff, Charles Butcher, who joins us as Technical Manager. Charlie has bought virtually everything Premier make (luckily before we recruited him !!), knows our products extremely well and is a welcome addition to the staff.

Our next major show will be the PCW show at the Barbican in September. Last year's show at the Cunard was very well organised, with superb security and crowd arrangements. We hope to see you on stand 237.

The next full 28 page mailout, to regular customers, will be in JULY/AUG. If you think you have an article/idea which might be suitable for a newsletter, please write to John Hooker a.s.a.p., marking the letter 'Article'.

### BASIC X    BASIC X    BASIC X

Add a mere 25 new BASIC words to your UK101/OHIO! BASIC X incorporates many new Tape, Printer, Sound and BASIC facilities.

For tape users, there are many new facilities available. APPEND (a BASIC 4 dump), CREATE OPEN and CLOSE (files), DUMP and GET (variables) give comprehensive tape file-handling facilities. Saving program-generated variables for later recall now becomes simple and reliable. Writing a Bank Account program, or a DATA file subroutine for your hobby becomes a few simple lines of BASIC.

Printer commands consist of LPRINT, LISP (LIST to printer), VIA, PAR, LFO, RSPO, IN and OUT. In addition a routine is included to give a parallel printer output via your own 6522 VIA or our VIA card.

The SOUND commands have been designed to work with PREMIER's SOUND kit, but the incorporation of the PSG command enables the user to 'point' BASIC X at any sound generator, as long as the AY 3-8910 chip has been used. Other sound words are RESET, NOISE, CHAN, ENV, VOL, REG and MODE.

Most of the sound commands feature multi-parameter inputs, giving an extremely flexible and powerful sound-generating capacity to your computer. Composing complex, integrated sounds (such as a short symphony!) now becomes much simpler since BASIC words rather a long series of POKEs can be used. In our next full newsletter, we hope to publish several BASIC X programs for you to play with.

New BASIC words are HANG, REPEAT.....UNTIL, and IF.....THEN.....ELSE. The UNTIL part of the REPEAT command can either be used on one line or appear later in the program, similar to the normal FOR....NEXT loop. ELSE gives the UK101/OHIO a very welcome and space-saving BASIC word which should make translating programs from other computers much easier! HANG enables you to halt program execution until a key is pressed.

All the above new words become 'built-in' once BASIC X is initialised, and require no prefix for BASIC to 'see' them.

BASIC X is compatible with ALL other PREMIER EPROM products. It has been extensively tested and availability for all CEGMON-based computers is immediate. Versions for MON02 and SYMON will be available shortly - please ring. BASIC X is supplied in EPROM only and two versions are available - 8800 hex and 9800 hex. Customers who have the 8800 slot (between BASIC 5 and TOOLKIT) empty should specify that version. If your 8800 slot is occupied, perhaps by CODEKIT or WORD WIZARD, specify the 9800 version and instructions will be supplied to enable you to install the device, either by purchasing another Mini-Eeprom Board or by piggybacking (if you must!).

### PRICES

BASIC X	£19.95 (+ 95p P&P)
BASIC X + Mini Eprom Board	£31.95 (+1.50 P&P)
State 8800 or 9800 when ordering	

# MASTER PACK

## Strategy Games

### Executive Jigsaw

An entirely new game that's as frustrating as it is fascinating. Your objective is to arrange 'pieces' of different lengths so that they exactly fill the jigsaw frame. Sounds easy? Well, it would be, if it weren't for three deceptively simple rules controlling how your pieces can be placed. The result is a game that really exercises your powers of concentration and strategic planning. If you make a mistake and need to start again, you can do so, but you don't collect any winning points. And if you decide the jigsaw just can't be solved, you can give up and see the computer's solution. Great graphics, with a jigsaw that gets larger and more challenging as your play gets better. Entirely engrossing!

### Square Solitaire

Almost everyone has played Solitaire (in which you aim to remove as many of your pegs as possible from the board) at some time in their lives. It's an intriguing game, but in its traditional form its main limitation is the need to start anew every time you discover you've made a mistake in planning your moves. SQUARE SOLITAIRE makes this drawback a thing of the past with its unique new REPLAY feature. At any point in a game you can now call for a slow-motion replay of all your moves. You can resume play at any stage in the replay, enabling you to correct strategic errors without having to start the game again. The value of this feature cannot be over-estimated, for it turns Solitaire into a truly absorbing game that holds the interest for many hours. With exceptionally fine graphics and user features.

### Nine-In-A-Line

The age-old game of Reverse brought up to date! The numbers 1 - 9 are shuffled and dealt - your target is to sort them back into ascending order by 'reversing' groups of numbers. Traditionally, numbers are reversed from the left, but in the PREMIER game you have three further options: reversing from the right, reversing alternately from left and right (devilishly difficult!), and reversing randomly from left and right (strictly for masochists!). Despite its apparent simplicity, NINE-IN-A-LINE constantly challenges your ingenuity, and with graphics features including new GIANT-SIZE numbers display and full 'state of play' information, this is definitely a game that's easier on the eye than the mind.

#### THREE FOR THE PRICE OF TWO !

Order these three exciting games together and save ££££ off the individual prices. Order STRATEGY GAMES PACK today, before we come to our senses and double the price!

# MASTER PACK

## Gambling Games

### Roulette

There are many versions of Roulette available, but this one easily out-classes all we have seen and been offered. It is the full, casino-standard game, with both betting 'table' and 'wheel' displayed simultaneously. You have complete freedom in placing your bets: high numbers, low numbers, odds and evens, reds and blacks, columns and rows, plus any specific number or numbers. You can place as many bets as you like before spinning the 'wheel', and there is no limit to the amount of each bet (provided you have enough money in the bank!).

Experience the excitement and drama of being a big-spending gambler from the comfort of your armchair - you'll find that ROULETTE quickly becomes addictive. Supplied with fully detailed instructions, making this program a must for beginner and expert alike.

### Super Fruit Machine

Highly intellectual!! All the features you'd expect on a fruit machine, including full random holds on one, two or even three reels, twenty-one winning combinations, and a challenging gamble feature. PLUS, user-selectable play cost, making the fruit machine anything from grossly generous to super-stingy! This program really does simulate the fun and tension (though not the cost) of playing a real fruit machine

### Twixt Twister

A remarkable card game. You're dealt two cards and invited to bet on the odds of a third card being between the first two in value. It seems so simple, but it's the 'catches' that bring the game to life! A complete game has twenty rounds, and the object is to increase your stake from an initial £100 to not less than a pre-determined target. Each time the cards are dealt, you're given a minimum bet. If you don't like the odds (for example, if you've been dealt a 3 and a 4), you can 'burn' your hand. But, you only have a limited number of 'burns', and once they're used up, you have to accept the minimum bet however bad the odds.

Successful TWIXT TWISTER play calls for a strong nerve, because the dealer will increase the minimum bet dramatically as soon as you reach your target. So you have to plan your play to keep just below your target until as near the end of the game as possible. There are times when winning a hand can be worse than losing it!

#### THREE FOR THE PRICE OF TWO !

Once again our lunatic pricing department offers an insanely generous bargain. Buy all three gambling games and save enough to treat yourself to a bottle of champers to celebrate your winnings at the roulette table and fruit machine! Order GAMBLING GAMES PACK quickly, before we change our minds . . .

## Premier Publications Britain's biggest hobby software specialist

208 Croydon Road Anerley London SE20 7YX  
Telephone 01 659 7131

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# MASTER PACK

## Educational

### Math Games Pack

The four games in this pack (ADDICTIVE ADDITION, SADISTIC SUBTRACTION, MURDEROUS MULTIPLICATION and DIABOLICAL DIVISION) are as entertaining as they are educational. With exceptionally flexible user-selected skill levels, they can be used as an aid in acquiring basic math skills, yet can provide even adults with a more than challenging run for their money. With powerful graphics and a constantly but gently increasing challenge to number skills, interest is held for long periods. Highly recommended and exceptional value for money.

### Challenge!

### Number Matcher

CHALLENGE! takes the old game of 'spot the odd man out' and brings it right up to date. A tremendous aid to learning perception skills, this is a game that children love, and in which they can often out-perform their parents (be warned!). As with all PREMIER Educational software, a wide variety of skill levels are provided for, and as the player's performance improves the game becomes still more challenging.

NUMBER MATCHER meets a serious educational need: learning to convert numbers expressed in figures to numbers in words, and vice versa. This is a frequently neglected skill, and one which our educational consultants tell us can do a great deal to improve confidence in handling both numbers and words. Attractive graphics hold the child's interest as he/she learns.

### Spelling Test

### Math Exerciser

SPELLING TEST really does develop spelling skills, by working with a vocabulary of the everyday words which classroom experience shows children have the greatest difficulty in spelling. For each word, the correct spelling is presented along with the most common incorrect spellings. The tests are graded in order of difficulty, and the program is designed to make it easy for you to add or substitute words your own child may have particular difficulty with.

MATH EXERCISER sets and marks (with dramatic graphics) problems in addition, subtraction, multiplication and division. Once again, there is user-selected control of the degree of difficulty, and our experience shows that children find working out sums set by the computer much more fun than problems in a textbook. A tremendous learning aid.

PREMIER Educational software has been developed with the active involvement of practising teachers, who have a full understanding of the areas in which learning outside the classroom can often help to fully develop children's potential skills. Children enjoy using computers, making this an ideal medium to combine education with entertainment.

# MASTER PACK

## Utilities

Sixteen utility programs that will revolutionise your programming techniques!

GRAPHICS MADE SIMPLE	UK 101
THE END OF COMPUTER CRASHES CAUSED BY MIS-POKING	SUPERBOARD
NON-SCROLLING STRING DISPLAY	VIDEO GENIE
STRING DISPLAY MIXED WITH GRAPHICS	TRS 80
STRING INPUT MIXED WITH GRAPHICS	SHARP
SELECTIVE SCREEN Clears	MICROTAN
PAGES OF TEXT UNDER SINGLE VARIABLE CONTROL	
FULL PAGE TEXT DISPLAY DIRECT FROM KEYBOARD	
SUPERIOR RANDOM NUMBER GENERATOR	
KEYBOARD SCANNING	
SCREEN LAYOUT DESIGN AIDS	
and much more . . .	

Now complex calculations of screen POKE addresses, and FOR . . . NEXT loops to create worthwhile graphics, are things of the past. With the new 'LC' (Line, Column) system graphics and screen layouts become the easiest part of program design. Now you need only choose the line and column of the screen on which you wish to operate - Line 1, Column 1 is address 101, Line 2, Column 1 is 201, and so on. Single characters, lines, and blocks of characters can all be created with SINGLE gosub calls. Not only graphics, but string display (both from programs and the keyboard), and selective screen clears, use this logical screen addressing system, making integrated program design entirely straightforward. PLUS . . .

COMPLETE protection in all routines against under- and over-poking - forget the frustration and time-wasting of computer crashes. PLUS . . .

'TEXTRA' text display system. Create text displays of any size and format direct from the keyboard. Start line, left and right margins are user-controlled, with automatic carriage return and full rub-out, even between lines. Can also be used with graphics and to annotate graphs. Invaluable in education, but has uses as wide as your imagination. PLUS . . .

\* Precision Random Number Generator - superior distribution, and initialisation facility for predictable number sequences; a great boon to games design!

\* 'Page' printing - define a single variable just once to create a page full of strings, even with spaces between lines, and intermixed with graphics.

\* GRAPHICS DESIGN TOOLKIT - 'Graphics Underlay' and 'Screen Address Indicator' provide a convenient grid background and cursor-driven display of POKE and 'LC' addresses to speed your graphics design still further.

The complete pack takes only 1300 bytes of RAM, and features modular design, so routines not being used may be deleted to free more RAM for your own programs (typical applications use only 500-600 bytes). UTILITIES PACK is written entirely in BASIC for ease of customisation, and comes with comprehensive instructions to ensure you get the very best from this incredibly powerful pack of programming aids.

(SUPERBOARD owners please note: UTILITIES PACK is available for all screen formats. PLEASE BE SURE TO SPECIFY YOUR COMPUTER'S DISPLAY FORMAT WHEN ORDERING.)



UK 101 ONLY

The game of LIFE was devised a number of years ago in an attempt to imitate biological cell growth. Originally created for mainframe computers, this fascinating program is now available for your UK101. Written entirely in machine code, it gives cell growth at an extremely fast rate.

The program is menu-driven and features growth in two modes - plane and doughnut. Other features allow you to freeze, speed up or slow down growth, to alter a growth pattern or to fast scan the WHOLE surface of a doughnut shaped organism. Five standard demonstrations are available within the menu, as is the ability to create or alter the organism at any time during the program.

Cell growth is very fast - many times per second at the fastest rate. Full user - instructions are included.

This program is available immediately for the UK101. See price list for cost.

## LIVELY LISSAJOUS

This program is the most difficult to describe that we have ever sold. Written entirely in machine code it produces graphics on a UK101 screen which can only be described as totally mind - boggling ! The basic demonstration program produces an ellipse on screen which can be made to spin around several times PER SECONDO. The shape of this ellipse can be altered as the program is running with the effect that the ellipse (or other shape) can be made to turn at any angle through any axis.

The program will accurately simulate an oscilloscope sine wave. The shape of the waveform can be altered from the keyboard during display thus proving educationally extremely useful.

Many other interesting shapes can be generated. Lively Lissajous is ideal for demonstrating to friends, colleagues etc exactly what your UK101 can produce in the way of graphical displays. We have found this program to be one of the most fascinating we have ever sold and recommend it highly.

Availability is immediate. See price list for cost.

## DRAUGHTS

Available NOW for the TRS/V.Genie

We are proud to announce this month our finest program yet for the TRS 80, UK 101 & Video Genie, DRAUGHTS. This program, written entirely in machine code to our specification, took six months to write and perfect and plays a truly stunning game. It will fully stretch even the most ardent fan of draughts.

There are six (or more) levels of play, the response time of the easiest being under one second and of level six over half an hour. You can play against the computer or watch it play itself, interrupting if you want to carry on yourself. You can place, remove, swap or change any piece during play, thus being able to set up your own situations and play on from there.

All the usual rules of Draughts are included, and error messages occur if you attempt to make an illegal move. The graphics really are superb and the method of moving pieces very simple. The computer plays a remarkable game (even on level one!) and, unlike other Draughts games, also plays a devastating end-game.

The program comes complete with full user instructions. Please note that this program will run on all TRS80 and Video Genie computers using your normal SYSTEM

## CODEKIT

**CODEKIT** .....a line assembler/disassembler/editor for all UK101/OHIO computers.

Codekit will revolutionise your machine code programming. In only 2K of code you have an assembler, a disassembler and an editor. In an 8K machine, this leaves you with almost 6K of programming space. (The 'standard' Ohio/Comphop Assembler/Editor takes almost 6K of space on its own). Some of the main features of CODEKIT are:-

- \* It is completely portable and will locate, without alteration, to any 2K block of memory.
- \* CODEKIT supports all 6502 mnemonics and addressing modes.
- \* Editing, deleting and moving code is a simple, logical operation.
- \* A full range of error messages are generated to signify faults in syntax, invalid mnemonic character, data out of range, etc.
- \* Because of its portability, CODEKIT can be co-resident with BASIC. You do not crash CODEKIT if you return to BASIC.
- \* Your operand can be hex, decimal, binary or ASCII, thus allowing complete flexibility of programming.
- \* supplied with full documentation.
- \* Gives a full tabular screen display of disassembled code.

CODEKIT also has an output to printer routine, allows rapid entry of code, and because it is only 2K of machine code, it loads from cassette considerably faster than other versions. Please note that CODEKIT is a single line assembler - it does not support labels or source files.

CODEKIT is available immediately for all versions of the UK101/OHIO range which have the normal (inverted) keyboard. A version for the C16, etc, is under development. CODEKIT will run under CEGMON, both Comphop monitors and the original Superboard monitor only. It is available on disk, tape or in EPROM. Prices are as follows:-

Tape £14.95 Disk £17.95 EPROM £19.95

The above prices include VAT but postage and packing (tape £0.50 EPROM/DISK £1) must be added when ordering. CODEKIT was commissioned, developed and is only available from PREMIER PUBLICATIONS.

(PLEASE NOTE that a knowledge of 6502 Machine Code will be needed to use CODEKIT successfully. If you are a beginner, we would recommend a good book on the 6502 such as '6502 SOFTWARE DESIGN' by Scanlon be purchased in conjunction with CODEKIT)

## **BASIC 4 - a high speed cassette file system**

We've attacked BASICS 1,3 and 5 and next in line comes BASIC 4 !

Our new EPROM for all UK101/OHIO machines contains a comprehensive cassette file-handling system which is capable of working at up to 4800 baud in BASIC as well as machine code. Combined with the High Speed Cassette Interface (see below), BASIC 4 offers a very useful utility for a very low cost.

**BASIC 4's main features are**

- 1/ Named programs to tape - word length up to 60+ characters possible !
- 2/ Reliable retrieval of stored programs from cassette at up to 4800 baud.
- 3/ A verify command which allows you to test a cassette-stored program against current RAM contents.
- 4/ When loading from cassette, all programs encountered are listed on screen by file name. Only the stipulated file name is loaded, but a 'directory' of a cassette can be easily built up.
- 5/ Auto run of programs when loaded - selectable each LOAD
- 6/ None of your normal SAVE and LOAD facilities are affected by BASIC 4. Your current program library does NOT become unloadable.
- 7/ A routine which enables you to recover a program IF you accidentally press RESET C and call up MEMORY SIZE ?
- 8/ Seven new SAVE/LOAD commands.

Installing BASIC 4 is simplicity itself - remove your current BASIC 4 chip, reconfigure the socket to EPROM status (full, clear instructions provided) then plug in BASIC 4 and it's there. It does not need initialising, nor is it lost by a warm or cold start, BASIC 4 becomes truly built-in !

BASIC 4 is made possible by utilisation of some of the spare space available in that device. Our new EPROM does not alter any subroutine addresses, so your programs will still run as normal. See price list for cost - availability is immediate.

## **HIGH SPEED CASSETTE INTERFACE - 4800 baud**

This new device allows reliable storage of programs on cassette at either 300 or 4800 baud rate. It comes fully built, and minimal alterations to your board are needed to fit it. It should be stressed however, that a good quality tape recorder will be needed to use this kit, as will good quality tape - C60's from your local Lo-Fi supplier are definitely not advisable. The 300 baud rate uses a different clock signal, and so normal 200 baud tapes might not load. However, the addition of a single switch completely overcomes this problem.

With the High Speed Cassette Interface, loading becomes less of a bore, since the 4800 baud rate speeds up loading by a factor of 16 ! A program which used to take eight minutes to load can now be loaded in around 30 seconds.

See Price list for cost and availability.

## **SCIENTIFIC PACK**

This suite of programs will be of great use to our mathematically based customers. The programs feature excellent graphics and superb presentation. They give the interpretation of the result on-screen, thus reducing the need for the user to become involved in using and interpreting statistical tables.

The suite of programs making up the pack are :

SAMPLE ANALYSIS - standard deviation, confidence limits, grouping of the data, plotting results on a histogram.  
CONSTANT LIMITS - standard deviation, confidence limits - loops for smaller data groups.  
STUDENT t-TEST - compares two samples of data.  
CHI-squared - tests goodness of fit to a ratio.  
CORRELATION - calculates linear regression of a line, gives correlation co-efficient and then plots a scattergram.  
FACTOR ANALYSIS - shows likeness between groups of data.  
SPEARMAN'S RANKED CORRELATION - allows comparison of two lists of ranked data.

Additionally, there is a DATA STORE program which allows the user to save and later retrieve DATA from tape. This allows the same data to be used with several of the above programs without the need to type it in every time.

## **TWOGETHER**

An entirely new two player game. Out-maneuvre your opponent through obstacles up the hill to the house at the top, blocking his path as you go along. This game calls for careful thought, advanced planning and a cool nerve (a sadistic streak could be useful too!). Win one round and the next becomes more difficult. There are ten rounds to a game, and the game features full graphics.

This could well be the game which introduces your partner to the pleasures of Computer Games.

## **CRIBBAGE**

A major new program from Premier Publications for the UK101; the card game CRIBBAGE is guaranteed to give hours of pleasure. The computer plays an excellent hand, and the on-screen presentation is superb. Full game status is constantly displayed, as are user prompts.

If you have any interest in card games, CRIBBAGE is an essential addition to your software library. During final testing of this program, several cribbage experts have been more than reluctant to turn off the computer!

STOP PRESS, NOW AVAILABLE

WARNING ! This program has been found to be highly addictive. FOR TRS80 & VIDEO GENIE.

## **ALIEN STRONGHOLD DEADLY TRIANGLE**

### **ALIEN STRONGHOLD**

An innovation in Space Graphics Games. Create your own Stronghold, then fly your spaceship into it to destroy the aliens. Extend the mission by landing and taking on extra fuel, etc. Many other features make this game truly unique - for instance, once you have designed your Stronghold to your satisfaction, you can store it on tape for future use. The program comes complete with an example Stronghold to start you off. Written partly in machine code for really fast action.

### **DEADLY TRIANGLE**

A new twist to graphics games. Destroy the enemy fleet by firing your laser at the Deadly Triangle, knocking pieces off to land on the fleet. But Beware! The enemy fleet and the Triangle fire back! Written partly in machine code for fast action.

# MASTER PACK

## Personal Computing

### Biorhythms, Diet & Weight

This menu-driven suite of programs provides fascinating insights into your life and health. The use of biorhythms to determine the days on which you're likely to be at your best, and those on which you need to take extra care, has become increasingly popular in recent years. They are used by many industrial companies and most major airlines to reduce accidents and ensure peak performance. Our BIORHYTHMS program provides easy-to-read graphical display of physical, emotional and intellectual cycles for any month of any year, based on any birthday, past, present and future. The DIET program analyses your life-style by activities, and recommends the number of calories you should consume each day. It is particularly interesting to see how a change in life-style affects your energy needs. And to complement the DIET program, in WEIGHT you can check the suggested weight for your height, allowing for differences in build and sex. An invaluable program pack!

### Calendar & Days Between Dates

### Games Scoreboard

CALENDAR and DAYS BETWEEN DATES enables you to display a calendar for any month between January 1900 and December 1999, and to calculate the number of days between any two dates from 1752 onward. Attractive display formats and convenient user features.

GAMES SCOREBOARD will prove invaluable to all games enthusiasts, replacing the traditional score-keeping method of scraps of paper, head-scratching mental arithmetic, and the inevitable violent arguments! In games such as Monopoly it also effectively dispenses with the need for a banker. Catering for up to six players, and offering single and double dice, GAMES SCOREBOARD features convenient user options and easy-to-read state of play information.

### Binary-Decimal-Hex Converter

### Alphabetical Sort

BINARY-DECIMAL-HEX CONVERTER provides both a practical tool for converting between the three most common number systems, and a learning aid to increase familiarity with binary and hexadecimal formats. Designed for ease and speed of use.

ALPHABETICAL SORT enables you to sort lists of names or information into alphabetical order. Lists of up to 255 items can be sorted, and there is no need to enter the total number of items in the list. Can also be used as a subroutine within your own programs.

# MASTER PACK

## Word Games

### Codebreaker

Congratulations! You've just been appointed Chief Codebreaker, and your mission is to crack the new code the enemy has just introduced. Almost all we know about this code is that letters of the alphabet have been substituted for one another; but at great personal risk our brave secret agents have discovered what some of the code letters really stand for. You'll be given these clues, and eight enemy messages in code. Your target is to translate the last of these into 'clear'. If you fail after three attempts, bad luck - you'll be joining the Siberian Expeditionary Force. And if you succeed, bad luck too - there are another 10,000,000,000,000,000,000,000,000 codes waiting to be broken!

With a wide range of code messages, and user control over how many clues are provided, CODEBREAKER will keep your brain boiling for hours, days, weeks, months . . .

### Scrambler

A gem of a game - simple yet endlessly fascinating. You're given the letters of a common English word (or at the higher levels of difficulty, a not-so-common word), but they're completely jumbled up. The object is to find the hidden word by sorting them into their correct order. But be warned - it's nowhere near as easy as it sounds.

With an extensive vocabulary, carefully graded for levels of challenge, SCRAMBLER is guaranteed to keep you at your computer until far into the night!

### PREMIER BARGAIN TIME !

Order CODEBREAKER and SCRAMBLER together and save enough money to treat yourself to a really good dictionary - you may need one!  
Order as WORD GAMES PACK.

# MASTER PACK

## CEGMON THE ULTIMATE COMPUKIT / SUPERBOARD MONITOR ROM

The NEW monitor ROM combining the best features of existing monitors with a whole new range of facilities to greatly increase your programming power in both BASIC and machine code.

- \* Full-feature BASIC editor: delete, copy, concatenate lines, with auto-repeat on all functions and true roll-over between lines; automatically adjusts for non-standard terminal widths. A joy to use.
- \* Powerful and sophisticated screen management system: easily controlled user-defined 'windows' provide mixed text and graphics, results of program runs with listing, comparison of different parts of listings, protected non-scrolling areas, and mixed scrolling and non-scrolling zones. Full cursor controls and selective screen clears. These features have to be used for their full value to be appreciated.
- \* New, highly advanced machine code monitor, with features to greatly speed and simplify machine code programming: tabular display of hex programs (a page of instructions displayed simultaneously - worth the price of CEGMON on its own), facility to input text and graphics as well as hex instructions, memory block move and copy, breakpoint facilities for fast program de-bugging, plus highly reliable SAVE and LOAD with auto-start feature.
- \* Disc bootstrap - floppy discs for COMPUKIT and SUPERBOARD are now coming onto the market. A disc bootstrap is essential to use any disc system.
- \* Keyboard instantly selectable for normal or typewriter operation. Releasing SHIFT LOCK gives lower-case characters and standard numbers, upper-case and top line punctuation is accessed through the shift keys, just as on a standard typewriter. A great boon in text-based applications and for users more familiar with typewriters than computers.
- \* BASIC and assembler inputs and outputs vectored through RAM, allowing direct linkage to your own input/output routines.
- \* Highly compatible design - almost all existing software will run on CEGMON without modification, and major subroutine entry points are identical.

The features listed above give only a brief outline of the power of CEGMON. Our senior BASIC and machine code programmers were supplied with samples for their evaluation - their unanimous verdict was that CEGMON is not only superior to any other monitor; once used, going back to earlier monitors is like returning to the dark ages! Comes with 20 page manual to ensure you realise the full potential of CEGMON.

Please be sure to specify the correct version for your computer when ordering:

UK101 - standard COMPUKIT      C1 - standard SUPERBOARD & C1  
C1E - 32 x 48 SUPERBOARD/C1, C2-type keyboard scan (Mutek conversion)  
C1U - 32 x 48 COMPUKIT/SUPERBOARD/C1, standard (invert) keyboard scan

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# MASTER PACK

## Arcade Games

### Flak

FLAK puts you in the 'driving seat' of an anti-aircraft battery; your mission is to destroy the enemy bombers before they wipe you out. Multiple levels of difficulty, and quite incredibly fast-playing at the harder levels, with extra features to add to the challenge and enjoyment. Highly recommended.

SPLAT! is quite simply one of the most elegant arcade games we've had the pleasure of playing. The object is simply to swat a fly buzzing round a room, but that fly certainly knows how to make things difficult for you. And when you do finally succeed things start to get still more complicated.

### Break-In

### Warp War

BREAK-IN is an entirely new arcade game with many ingenious touches. The object is to penetrate the maze, capture the treasure, and escape, all without being caught by the robot guards. A game of strategy as well as fast reactions.

WARP WAR is undoubtedly one of the most challenging arcade games ever created. You're the commander of a defence post 'somewhere in the depths of space', and your mission is to use your defence shields and lasers to protect the post and destroy the alien attackers before they destroy you. Aliens appear from all directions, and you must quickly choose whether to assign your shields or fire at them. At the higher levels of difficulty you'll need every ounce of concentration!

### Time-Maze

### Air Traffic Control

TIME-MAZE is positively THE maze game. Beat the clock by navigating and blasting your way through a devilishly devious maze. Succeed, and your next game's even harder. Great graphics.

In AIR TRAFFIC CONTROL you play under pressure to keep up to twelve planes from colliding in the crowded airways. With computer-commentary on your performance and twenty levels of play, you'll have great fun crashing multi-million pound jumbo jets into each other!

### Wipeout

### Roadrunner

### Bomber Pilot

WIPEOUT challenges you to fill a playing field littered with obstructions with 'X's without becoming hemmed in. In ROADRUNNER there's the added complication of extra obstruction appearing at random as play progresses. Both games really do challenge your ability to plan ahead and anticipate problems before they arise.

In BOMBER PILOT you navigate your plane past enemy installations to deliver your lethal load. Multiple skill levels and some decidedly difficult rules for surviving the enemy obstructions combine to keep you right on the edge of your seat.

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