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February 1984  
80p

Software  
Special

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Atari, Texas,  
Spectrum,

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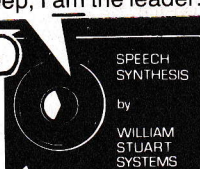


Every computer needs

## CHATTERBOX II

"Listen creep, I am the leader...."

For ZX81  
SPECTRUM  
BBC  
TRS 80  
APPLE  
NASCOM  
VIC/PET/64  
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**NEW!  
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## CHATTERBOX II™ can say anything!

Genuine phoneme synthesis - not just recorded speech - hence unlimited vocabulary. Programmable pitch for more natural intonation (exclusive to Wm Stuart Systems) - solid tone cabinet for quality sound - integral beep/music amplifier. **PLUS** expansion socket for BIG EARS voice recognition system. Full instructions technical notes and software supplied with this outstanding educational unit.

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## ZX81/SPECTRUM

**MUSIC SYNTHESISER (Stereo)  
+16 LINE CONTROL PORT 16K RAM**

Play 3-part music, sound effects, drums etc. Full control of attack, decay and frequency. Input/Output lines provide control and monitor facility for Home Security, Robot Control, Model Railway etc. etc. Works with or without 16K RAM.

Full instructions/software included. Add keyboard to make a live performance polyphonic synthesiser!

Note: up to 3 units can be used simultaneously; giving 9 music channels & 48 I/O lines

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**£19.50 (KIT)  
£25.50 (BUILT)**

**NEW!**

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### THE COMPOSER

Synthesiser Music Programme. Enter & play 3 part harmony. Includes demonstrations. (Spectrum/ZX81) recommended **£7**



### TALKING HANGMAN

For Chatterbox! The classic game claims its victims with a dry vocal accompaniment (Spectrum) **£6**



### ZX ARP/DRUMSEQ

Fascinating synthesiser demonstrations. Generates automatic sequences and plays from keyboard. Some weird effects (Spectrum) **£6**



### CHROMACODE??????

Can you defuse the bomb by cracking the secret combination before time runs out? With Chatterbox voice output (Spectrum) **£6**

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RGB in, PAL/UHF out (not for ZX)

**KIT £16**

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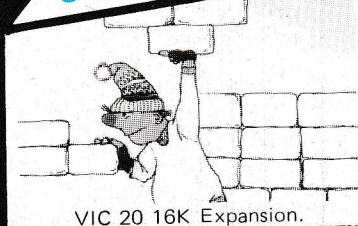


# PARAMOUNT SOFTWARE

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**CHOCABLOC** - A fast moving, pure Machine Code action game, with Chocabloc our hero trying to sort out some Real Cool Choc Bars - until everything goes crazy and the action is on! Arcade standard. Fully featured. Excellent sound and graphics. Keyboard or Joystick.

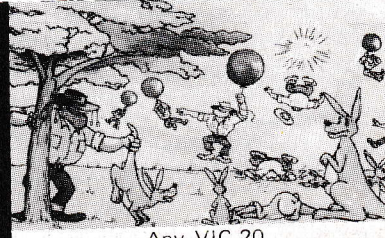
**£6.50**



VIC 20 16K Expansion.

**OUTBACK** - Can you use the very sophisticated defence set-up to beat off the cunning Swagmen? How long will you survive? Pure Machine Code action. Fully featured. Superb colour and graphics. A game with a difference. Joystick.

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Any VIC 20



VIC 20 8K or 16K Expansion.

**COUNTDOWN** - Time is important. Accuracy essential. Courage mandatory. But above all, Nerve is the prime attribute needed for your mission as an agent in the crack S.M.U. A Superb Arcade/Graphical Adventure. Keyboard or Joystick.

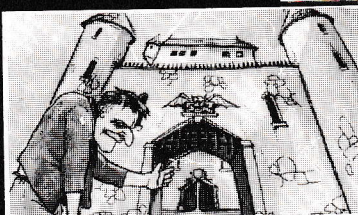
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**MEGAWARZ** - Where does your fantasy go when your mind leaves your body? Megawarz will take you there you can be sure. High resolution, multi-colour graphics. Sprite graphics. Synthsound. Pure Machine Code action. Arcade standard. A magical planetary trip. Keyboard or Joystick.

**£7.50**



Commodore 64



Dragon 32

### CASTLE OF DOOM

Fully implemented graphical adventure. A compelling and devious plot which retains excitement and interest to the end - if you ever reach the end! An experience in adventuring not to be missed. It's user friendly too!

**£6.50**

**JOGGER** - Truly a jogger amongst joggers. If you have trotted with the rest, now run with the best. Machine Code action. Superlative sound. Creative colour. A quality programme from Paramount.

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## BBC Microcomputer System

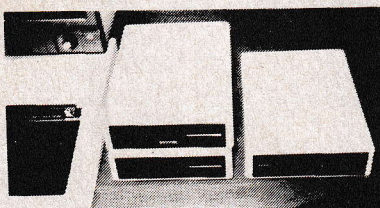
### OFFICIAL BBC COMPUTER DEALER

#### MODEL A AVAILABLE £299 inc. VAT

This is the best microcomputer currently on the market. 32K RAM, 32K ROM, 8 modes of operation, full colour, full-size keyboard, internal expansions such as disc interface, speech synthesizer, Econet interface. - In short, it is a personal computer capable of expanding into a small business system.

BBC Microcomputer Model B	£348 + VAT = £399.00
BBC Mod B + disk interface	£409 + VAT = £469.00
BBC Mod B + Econet interface	£389 + VAT = £447.35
BBC Mod B + disk and Econet interfaces	£450 + VAT = £517.50
BBC 100K disk drive	£230 + VAT = £264.00
BBC dual 800K disk drive	£699 + VAT = £803.85
Torch 280 disk pack including 280 2nd processor, 64K RAM and CPN operating system + free perfect software	£699 + VAT = £803.85
BBC Teletext receiver (Aug)	£196 + VAT = £225.40
BBC cassette recorder and lead	£26 + VAT = £29.90
Disk interface kit (free fitting)	£86 + VAT = £96.60
Mod A to Mod B upgrade kit	£50 + VAT = £57.50
Fitting charge for A to B upgrade kit	£20 + VAT = £23.00
16K memory upgrade kit	£11 + VAT = £12.65
Games paddles	£89 + VAT = £102.35
12" Monochrome monitor incl. cable	£239 + VAT = £274.85
16" Colour monitor incl. cable	£10 + VAT = £10.00
User guide	£60 + VAT = £69.00
Econet interface (free fitting)	£47 + VAT = £54.05
Speech interface (free fitting)	£30 + VAT = £34.50
BBC disk manual + formatting disk	£10 + VAT = £11.50
Parallel printer cable	£52 + VAT = £59.80
BBC word processor (view)	£15 + VAT = £17.25
BBC Fourth language cassette	
BBC Lisp language cassette	

### 100% BBC COMPATIBLE MITSUBISHI AND TEAC SLIMLINE DISK DRIVES



These drives are supplied ready cased with all the necessary cables, formatting program and user disk system guide.

There are some useful utilities included, e.g. Epson Screen Dump Program, Memory Dump, Free, Duplicate, Merge and Relocate. Power consumption of these drives is very low (0.2A typ. at +12V, 0.4V typ. at -5V per drive). Power is taken from the BBC computer.

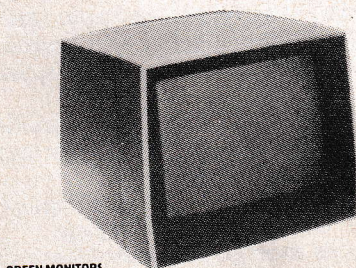
Single drive 100K 40 tracks	£169 + VAT = £194.35
Dual drive 200K 40 tracks	£329 + VAT = £378.35
Single drive 400K 80 tracks	£239 + VAT = £274.85
Single drive 400K 40 80 tracks switchable	£259 + VAT = £297.85
Dual drive 800K 80 tracks	£449 + VAT = £516.35
Dual drive 800K 40 80 tracks switchable	£469 + VAT = £539.35

### COMPLETE WORD PROCESSOR FOR ONLY £1,099 + VAT

This package consists of BBC Microcomputer, View, wordprocessor, 400K Slimline disc drive, High resolution 12" Green monitor, Juki 6100 18CPS Daisy Wheel printer and all the necessary cables and documentation. The above package can be supplied with components of your own choice, e.g. 800K disc drive or a different printer. Please phone us for a price for your particular requirement.

Special package deal £1,099 + VAT = £1,263.85

### PROFESSIONAL MONITORS



#### GREEN MONITORS

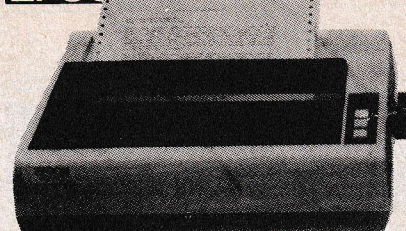
12" Green screen monitors with composite and sync. input. Suitable for most computers.

* 18 MHz band width, high resolution	£89 + VAT = £102.35
* 15 MHz band width, normal resolution	£69 + VAT = £79.35

#### COLOUR MONITORS

* MICROVITEC RGB input 14" monitor supplied with RGB lead for BBC	£209 + VAT = £240.35
* SANYO SCM 14" Normal res. 14", 400 dots, RGB input supplied with RGB lead	£219 + VAT = £251.85
* SANYO SCM 14M Medium res. 14", 600 dots, RGB input supplied with RGB lead	£199 + VAT = £228.85
* SANYO SCM 14H High res. 14", 800 dots, RGB input supplied with RGB lead	£399 + VAT = £458.85

## EPSON FOR RELIABILITY



**EPSON FX80:** 80 column, 160 CPS, normal, italic and elite characters, 256 user definable characters, superscript, subscript, 11 x 9 matrix, bi-directional logic seeking, hi-res bit image printing (960 x 8 dots/line), friction and pinfeed, 9 international character sets, Centronic parallel interface.

FX80 PRICE £349 + VAT = £401.35

**EPSON RX80:** 80 column, 100 CPS, normal, italic and elite characters, 11 international character sets, hi-res bit image printing, bi-directional logic seeking, 4" to 10" adjustable pin feed, Centronic parallel interface.

RX80 PRICE £239 + VAT = £274.85

**EPSON FX 100:** 136 column, 160 CPS friction and tractor feed, up to 15" adjustable carriage, hi-res bit image printing, true descenders, PRICE £479 + VAT = £550.85

RS232 Interface for all above printers £55 + VAT = £63.25

**RX80 FT (friction tractor)** £269 + VAT = £309.35

Tractor feed for FX80 £79 + VAT = £90.85

Roll holder for FX80 £12 + VAT = £13.80

Ribbon for MX80, FX80, RX80 £8 + VAT = £9.20

Ribbon for MX100 £12 + VAT = £13.80

### SEIKOSHA DOT MATRIX PRINTERS WITH HIGH-RES GRAPHICS



**GP-100A:** 80 column, 50 CPS, dot addressable hi-res graphics, 10" wide, fully adjustable, tractor feed, 7 x 5 print matrix, Centronic parallel interface.

GP-100A 50CPS PRICE £175 + VAT = £201.25

**GP-250X:** 80 column, 50 CPS, 10" wide, fully adjustable, tractor feed, true descenders, 64 user definable characters, double height and/or double width printing, 8 x 5 print matrix, Centronic parallel and RS232 (serial) interfaces both included.

GP-250X PRICE £219 + VAT = £251.85

#### NEW GP-700A 7 COLOUR PRINTER

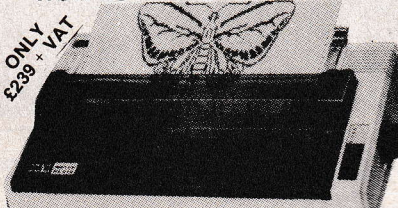
This latest addition to Seikosha range gives you print in seven colours, 10" wide carriage, friction and tractor feed, 50 CPS print speed, dot addressable high-res graphics, 4 hammer printing mechanism, 10 CPI or 13.3 CPI, special Quiet printing mode, Centronic parallel interface.

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**STAR DP510:** 10" carriage 80 columns £239 + VAT = £274.85

**SPECIAL PRICE**

**STAR DP515:** 15" carriage 136 columns £279 + VAT = £320.85

**SPECIAL PRICE** £50 + VAT = £57.50

RS232 INTERFACE FOR ABOVE

### POCKET COMPUTERS AND CALCULATORS

\* **CASIO PB-100:** Basic language pocket computer, 544 program steps, Qwerty keyboard, 12 char display £34.75 + VAT = £39.95

\* **CASIO FX-700P:** Basic language, scientific functions, 1568 program steps, Qwerty keyboard, 12 char display £43.44 + VAT = £49.95

\* **CASIO PB-300:** Basic language computer, scientific functions, 1568 program steps, built-in mini printer, Qwerty keyboard, rechargeable batteries and charger, 12 char display £78.22 + VAT = £89.95

\* **CASIO FA-3:** Cassette adaptor for PB100, PB300, FX700 £17.35 + VAT = £19.95

\* **CASIO FP-12:** Printer for BB100 and FX700 £39.09 + VAT = £44.95

\* **SHARP PC-1211:** Basic language computer, scientific functions, 1424 program steps, 24 char display, Qwerty keyboard £60.83 + VAT = £69.95

\* **SHARP PC-1251:** Basic language computer, 4K RAM, 24K system ROM, 24 char display, Qwerty keyboard, user defined key, numeric pad £69.52 + VAT = £79.95

\* **SHARP CE-125:** Cassette recorder and mini printer for use with PC-1251, incl batt charger £86.91 + VAT = £99.95

\* **SPECIAL PRICE PC-1251 - CE-125** £146.95 + VAT = £169.00

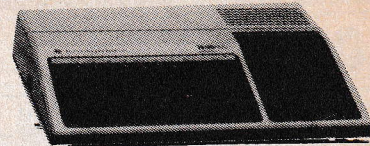
#### ORDERING INFORMATION

All orders which accompany a cheque, cash or postal orders are **CARRIAGE FREE** (UK only). Please make cheques and postal orders payable to "AKHTER INSTRUMENTS". A carriage charge of 3% of invoice total is applicable to BARCLAYCARD and ACCESS orders. We accept official orders from Government and Educational establishments. We accept VAT FREE EXPORT orders, please phone or write to check shipping cost.

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## TEXAS INSTRUMENTS TI 99/4A



This microcomputer is based on TMS9900 16-bit microprocessor. It includes 16K RAM, 16 colour high resolution graphic (192 x 256). The screen display is 32 characters, 24 lines TI-BASIC. Full-size keyboard. For Software there are about 1000 programs to choose from. There are a lot of peripherals available, e.g. Disk Drives, Disk Interface, Speech Synthesizer, Extra RAM. Additional Language (PASCAL, TI-LOGO, ASSEMBLER).

#### TI HOME COMPUTER HARDWARE

Title	Description	Price inc VAT
T199/4A	Complete with UHF modulator and power supply	£89.95
<b>PERIPHERALS</b>		
Speech Synthesizer	When used with selected modules will reduce electronic speech	£41.95
Peripheral Expansion System	This unit takes all card peripherals and on internal disk drive	£79.95
Disk Drive - Internal	92K formatted drive, mounts internally in peripheral expansion system	£149.95
Disk Controller Card	Controls up to 3 disk drives, complete with disk manager command module	£109.95
Disk Drive Double Sided	92K formatted capacity per side acts as 2 drives DSK1 & DSK2 total capacity 184K bytes	£219.95
Disk Drive External	Complete with own case, power supply & connecting cables	£259.95
RS232 Expansion Card	Provides 2 serial RS232 ports, and one parallel port for interfacing	£79.95
RAM Expansion Card	Adds 32K bytes extra RAM bringing total capacity to 48K bytes	£79.95
P-Code Card	Includes the UCSD-PASCAL P-code interpreter	£189.95
Matrix Printer	80 column matrix printer pinter GP-100A + cable	£219.95
Matrix Printer GP250X	80 column matrix printer with RS232 and Centronic parallel interface	£273.95
Epson RX80 Printer	80 column, 100 CPS matrix printer	£297.85

Please send S.A.E. for software prices

### THE AFFORDABLE DAISYWHEEL PRINTER

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- \* 2K Buffer as standard - 100 character Daisywheel

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### THE CP80 QUALITY PRINTER

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- \* 80 CPS - Bi-Directional Logic Seeking 80 Columns
- \* Friction and Adjustable Tractor Feed
- \* Patented Square Needles up to 9 x 13 matrix
- \* Hi-Res Graphics and Block Graphics

**SHINWA CP80 PRINTER** £219 + VAT = £251.85

**SPARE RIBBON FOR CP80** £5 + VAT = £5.75

### THE NEW SHARP MZ 711 COLOUR COMPUTER

64K user memory - 4K video memory screen. Construction 40 x 25. Internal optional cassette and printer.

Special introduction price **£199 + VAT = £228.85** (free 10 games included)

Internal cassette recorder option **£33 + VAT = £37.95**

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### TI TREK

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Defeat the Klingon invasion fleet. Features include 5 skill levels, graphics quadrant display, galaxy map, phasors, photon torpedoes, long range scans, damage reports, shield control, impulse and warp drive. Eight by eight galaxy. Full instructions included. Graphics and sound.

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Can you rescue the captive princess from the clutches of the evil wizard? There are keys and weapons to aid your quest, but also trolls and goblins who view you as a tasty snack! Text.

### HAUNTED HOUSE

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## APEX SOFTWARE

Swiss Cottage, Hastings Road,  
St. Leonards-on-Sea,  
E. Sussex TN38 8EA

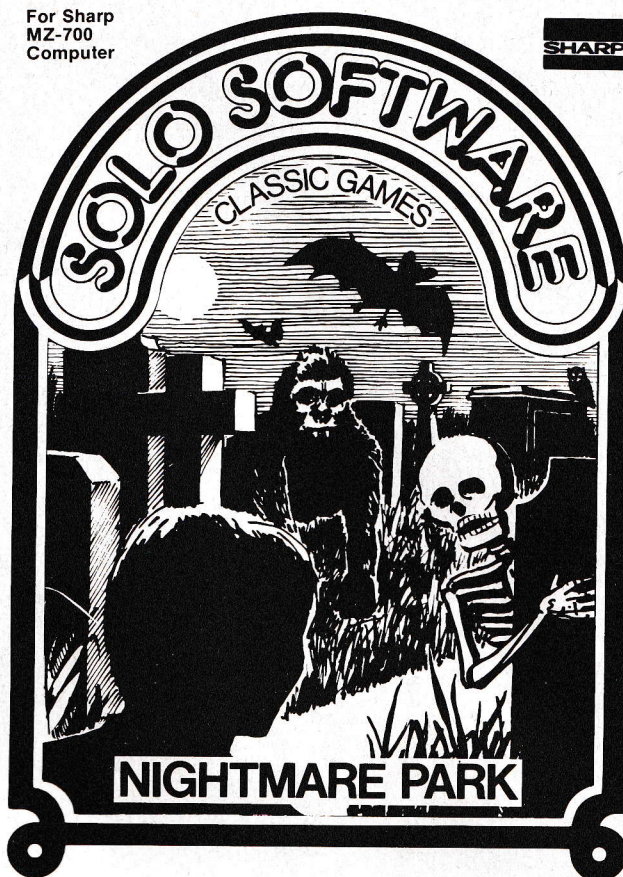
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## ORIC 1

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Coworth  
Mansion,  
Coworth Park,  
London Road,  
Sunninghill, Ascot,  
Berkshire, SL5 7SE.



### STANDARD PACKAGE

Memory Size (RAM)	16K, 48K
Screen Size	28 X 40
Expansion Sockets	Yes
Tape Included?	No
Display Unit Included?	No
Usable Domestic TV?	Yes
Size of BASIC	8K
Average Price	£99.95, £139.95

### MANUFACTURER'S EXPANSIONS

	DETAILS	PRICE
RAM	N/A	£169.95
Printer	Yes	—
Monitor	Yes	—
Disc Drives	TBA	—
Other Languages	FORTH	—
Multi-user Capabilities	No	—
BASIC extensions	TBA	—

### OTHER ADD-ONS:

Joystick / Interface, Speech Synthesiser, Modem, Light Pen.

## SHARP MZ-80A

Sharp UK Ltd,  
Thorn Road,  
Newton Heath,  
Manchester  
M10 9BE  
Tel: 061-205 2333



### STANDARD PACKAGE

Memory Size (RAM)	48K
Screen Size	25 lines of 40 characters
Expansion Sockets	BUS connector
Tape Included?	Yes
Display Unit Included?	Yes
Usable Domestic TV?	No
Size of BASIC	12K
Average Price	£549

### MANUFACTURER'S EXPANSIONS

	DETAILS	PRICE
RAM	No	—
Printer	Yes	£450-800
Monitor	N/A	—
Disc Drives	Yes, dual	£600
Other Languages	Yes	£45
Multi-user Capabilities	No	—
BASIC extensions (Toolkits)	No	—

### OTHER ADD-ONS:

None Reported

## SHARP MZ-80K

Sharp UK Ltd,  
Thorn Road,  
Newton Heath,  
Manchester  
M10 9BE



### STANDARD PACKAGE

Memory Size (RAM)	48K
Screen Size	25 lines of 40 characters
Expansion Sockets	BUS connector
Tape Included?	Yes
Display Unit Included?	Yes
Usable Domestic TV?	No
Size of BASIC	12K
Average Price	£350

### MANUFACTURER'S EXPANSIONS

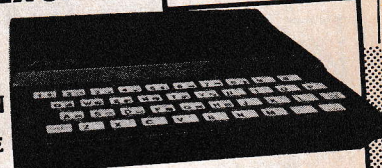
	DETAILS	PRICE
RAM	No	—
Printer	Yes	£450-800
Monitor	N/A	—
Disc Drives	Yes, dual	£600
Other Languages	Yes	£45 upwards
Multi-user Capabilities	No	—
BASIC extensions (Toolkits)	No	—

### OTHER ADD-ONS:

None Reported

## SINCLAIR ZX 81

Sinclair Research,  
6 Kings Parade,  
Cambridge CB2 1SN



### STANDARD PACKAGE

Memory Size (RAM)	1K
Screen Size	24 lines of 32 characters
Expansion Sockets	BUS connections
Tape Included?	Yes
Display Unit Included?	No
Usable Domestic TV?	Yes
Size of BASIC	8K
Average Price	£49.95 built

### MANUFACTURER'S EXPANSIONS

	DETAILS	PRICE
RAM	16K RAM pack	£29.95
Printer	ZX Printer	£59.95
Monitor	No	—
Disc Drives	No	—
Other Languages	No	—
Multi-user Capabilities	No	—
BASIC extensions (Toolkits)	No	—

### OTHER ADD-ONS:

Memory expansion unit 16K or 64K, Memotech Ltd, 3 Collins St, Oxford OX4 1XL, £39.95-79; Memory Expansion 64K, Downsway Electronics (UK) Ltd, Dept M, Downsway House, Epsom Road, Ashted, Surrey: £59.95; Key Bleep Unit, Microtronix, 3 Buxton Avenue, Coulton, Nottingham, N94 3RR, £8.85 kit, £9.95 built; Maximem 1.1, East London Robotics, Finlandia House, 14 Darwell Close, East Ham, London, E84 BT, £93.50; Music Synthesiser + 16 line control port, William Stuart Systems Ltd, Dower House, Billicicay Road, Herongate, Brentwood, Essex CM13 3SD, £19.50; Full-size keyboard, Protos Computer Systems, Frome Computing, 20 Ashtree Road, Frome, Somerset, BA11 2SF, £64.95; ZX99 Automatic tape control, Data-cassette, 44, Shroton Street, London NW1 6UG, £59.95.



# REFERENCE

## SOFTWARE LISTING

### ORIC

Title	Program Type	Program Produced By	Memory Req'd	How Sold	Supplier Codes	Prices
Adventureland	Gm	Kenema	48K	C KEn		£4.99
Airline	Gm	CCS	48K	C CCs		£7.95
Assembler & Disassembler	Ut	Durell	48K	C DU		£9.95
Awari	Gm	Kenema	48K	C KEn		£3.83
Backgammon	Gm	J Edwards	12K	C JE		£5.50
Base	Gm	Tansoft	48K	C TA		£9.95
Battleship Patrol	Gm	J Edwards	12K	C JE		£5.50
Biorythms	Do	Tomorrows World	48K	C TO		£5.95
CB/Ham Log	Do	Kenema	48K	C KEn		£3.83
Centipede	Gm	PSS	48K	C PSs		£6.95
Character/Graphic Generator	Ut	Headfield Technology	48K	C HEa		£4.95
Chess	Gm	Tansoft	48K	C TA		£9.99
Code Breaker	Gm	Headfield Technology	48K	C HEa		£4.95
Compendium	Gm	Salamander S/W	48K	C SA		£7.95
Dallas	Gm	CCS	48K	C CCs		£7.95
Death Satellite	Gm	A & F Software	16K	C AA		£6.90
Death Trap	Gm	Headfield Technology	48K	C HEa		£4.95
Design Aid	Ut	Kenema	48K	C KEn		£3.83
Dinky Kong	Gm	Adrian Shepherd	16K	C SE		£6.95
Dungeons of Intrigue	Gm	ASL Software	48K	C ASI		£5.50
Family Records	Do	Kenema	48K	C KEn		£3.83
Fishermans Log	Gm	Kenema	48K	C KEn		£3.83
Five Alike	Gm	Pase	48K	C PA		£4.99
Flight	Gm	Tansoft	48K	C TA		£4.95
Forth	Ut	Tansoft	48K	C TA		£4.95
Franklin's Tomb	Gm	Salamander	48K	C SA		£9.95
Fruit Machine/Pontoon	Gm	Computamaster	48K	C COt		£4.95
Gail	Gm	Severn Software	48K	C SE		£6.95
50 Games	Gm	Cascade Software	48K	C CAs		£9.95
50 Games	Gm	U.T.S.	48K	C UT		£9.95
3 Games for Children	Ed	Burslem	48K	C BU		£7.95
Graphics	Ut	Basic Concepts	48K	C BA		£6.95
Happy Landings	Gm	Basic Concepts	48K	C BA		£6.95
Hopper	Gm	P.S.S.	48K	C PSs		£6.95
Invaders	Gm		48K	C AR,PSs		£5.50
						£6.95
Key Trainer	Ed	Kenema	48K	C KEn		£3.83
Knights	Gm	Headfield Technology	48K	C HEa		£4.95
Light Cycle	Gm	PSS	48K	C PSs		£6.95
Lunar Lander/Asteroids	Gm	Durell Software	48K	C DU		£5.95
Mastermind	Gm	Tomorrows World	48K	C TO		£5.95
Mastermynde	Gm	Headfield Technology	48K	C HEa		£4.95
M/Code Monitor	Ut	PASE	48K	C PA		£4.99
Mushroom Mania	Gm	Arcadia Software	48K	C AR		£5.50
3D Noughts and Crosses	Gm	J Edwards	8K	C JE		£5.50
ORIC Base	Do	Tansoft	48K	C TA		£14.50
ORIC Chess	Gm	Tansoft	48K	C TA		£9.99
ORIC Flight	Gm	Tansoft	48K	C TA		£4.50
ORIC Forth	Ut	Tansoft	48K	C TA		£15.00
ORIC Invaders	Gm	Titan	48K	C TI		£6.95
ORIC Man	Gm	P.S.S.	48K	C PSs		£8.95
ORIC Trek	Gm	Salamander	48K	C SA		£9.95
Oricade	Ut	Severn Software	48K	C SE		£8.50
Othello	Gm	J Edwards	10K	C JE,KEn		£5.50
Painter	Gm	A&F Software	48K	C AA		£6.90
Personnel Files	Bs	Kenema	48K	C KEn		£17.39
Quest	Gm	J Wolstencroft	48K	C JW		£6.95
Startrek	Gm	J Edwards	48K	C JE		£5.50
Synthesiser	Do	Tomorrows World	48K	C TO		£7.95
Teach Yourself Basic	Ed	Basic Concepts	48K	C BA		£6.95
The Word	Gm	Headfield Technology	48K	C HE		£4.95
Ultra	Gm	PSS	48K	C PSs		£6.95
West Quest	Gm	PASE	48K	C PA		£4.99
Worm	Gm	PASE	48K	C PA		£4.99
Wiggler	Gm	FBC Systems Ltd	48K	C FB		£5.50
Zodiac	Do	Tansoft	48K	C TA		£9.99
Zodiac	Do	A&F Software	16K	C AA		£6.90
Zrim	Gm	J Wolstencroft	48K	C JW		£7.50

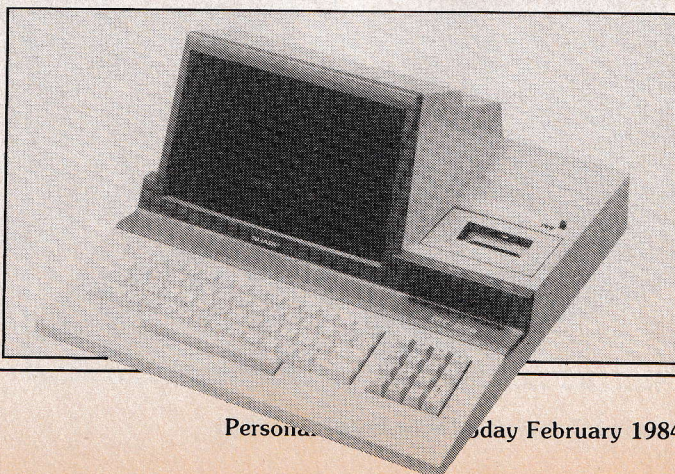
### ORIC DEALERS

#### Supplier Code

<b>AA</b>	A & F Software 10 Wilpshire Avenue Longsight Manchester 061 320 5482	<b>JE</b>	J Edwards 20 Southern Road West End Southampton
<b>AR</b>	Arcadia Software Freepost Swansea SA3 4ZZ	<b>JU</b>	Juniper Computing 8 Pembroke Green Lea Malmesbury Wilts SN16 9PB 06662 2689
<b>ASI</b>	ASL Software 66 Flord Llywellyn Little Acton Wrexham Chwyd	<b>JW</b>	J Wolstencroft Sagar Fold Blecsdale Preston Lancs 0995 6327
<b>BA</b>	Basic Concepts PO Box 46 Leatherhead Surrey KT22 7XF 0372 378694	<b>KEn</b>	Kenema Associates Ltd 1 Malborough Drive Worle Avon 0934 21315
<b>BU</b>	Burslem Computer Centre 74 Waterloo Road Burslem Stoke on Trent Staffs ST6 3EX 0782 825555	<b>PA</b>	PASE 213-215 Market Stret Hyde Cheshire 061 366 5935
<b>CAs</b>	Cascade Software Cascades House Bargans Lane Llandogo Gwent NP5 4PA	<b>PSs</b>	PSS 452 Stoney Stanton Road Coventry 0203 667556
<b>CCs</b>	C.C.S. 14 Langton Way Blackheath London SE3 7TL 01 858 0763	<b>SA</b>	Salamander Software 17 Norfolk Road Brighton W Sussex 0273 771942
<b>COt</b>	Computamaster 17 New Belt Avenue Cheam Surrey SM3 8ED	<b>SE</b>	Severn Software 5 School Crescent Lydney Glos GL15 5T
<b>COv</b>	Computasolve Ltd 8 Central Parade St Marks Hill Surbiton Surrey KT6 4PJ 01 390 5135	<b>TA</b>	Tansoft 3 Club Mews Ely Cambridge 0353 2271
<b>DU</b>	Durell Software Higher Combe Combe Florey Taunton Somerset TA4 3JF	<b>TI</b>	Titan Programs The Computer Palace 46 Market Place Chippenham Wilts 0249 653824
<b>FB</b>	FBC Systems Ltd 10 Castelfields Main Centre Derby 0332 365280	<b>TO</b>	Tomorrows World 118 Worcester Road Malvern Worcs 06845 62467
<b>HEa</b>	Headfield Technology Ltd Lock Street Saville Town Dewsbury WF12 9BW 0924 461327	<b>UT</b>	UTS PO Box 96 Harrogate N Yorks HG3 2UZ

### SHARP

3-D Basic	Gm	Kuma	6K	C KU,XI,MI	£6.32
3-D Space Battle	Gm	Sumlock	48K	C SUm	£8.00
Acrobat	Gm	Sumlock	48K	C SUm	£6.33
Address Book	Gm	Highlight S/W	4K	C HI,MI	£4.60
Address Book	Do	DCS	48K	C DAv	£3.00
Agent 007	Gm	DCS	24K	C DAv	£3.00
Aladdin's Cave	Gm	Kuma	48K	C KU,BR	£6.32
Aldebaren I	Gm	Sharpsoft	20K	C BR	£5.85
Alien Attack	Gm	Sumlock	48K	C SUm	£6.50
Alien Attack	Gm	J Wolstencroft	24K	C JW	£4.60
Analysis Book	Bs	Microtek	48K	C ML	£95.00





## SHARP DEALERS

Supplier Code		LS	Laskys 7-9 Queensway London W2 3RX 200 0444
BI	Bar Instrument Company Flixton Road Manchester M31 3BG	MI	Micro & Video Palace 652-64 Kensington High St London W8 01 637 0366
BR	Brighton Gamer 24 Gloucester Rd Brighton Sussex 0273 698424	ML	Microtek Ltd 15 Lower Brook Street Ipswich Suffolk 0473 50512
BRo	Broadwater Economic Simula- tions 24 Hill Barn Lane Worthing W Sussex	SOI	Solo Software 51 Broad Street Worcester WR1 3LR 0905 26524
CA	Carswell Computers Carswell Barn Faringdon Oxon SN7 8JN	SUm	Sumlock Electronic Services Royal London House 198 Deansgate Manchester M3 3NE 061 834 4233
DAv	David Computer Software 38 South Parade Bramhall Stockport SK7 3BJ 061 439 4841	SU	Superior Systems Ltd 178 West Street Sheffield 0742 755005
EP	Epsom Computers 25 Chartwell Place Epsom Surrey	TR	Tridata Micros Ltd Smithfield House Digbeth Birmingham B5 6BS 021 662 6085
HI	Highlight Software 3 Nether Court Halstead Essex 0787 475714	UR	Urmston Computer Centre Flixton Road Urmston Manchester
JW	J Wolstencroft Sagar Fold Preston Lancs 09956 327	WC	WCG Ltd Letterghesh Renvyle Co. Galway Republic of Ireland
KU	Kuma Computers 11 York Road Maidenhead Berks 0628 71778	WO	Work Force 140 Wilsden Avenue Luton Beds LU1 5HR
		YO	Youngs of Leicester 40/42 Belvoir Street Leicester



Animate	Gm	Kuma	48K	C	KU,XI,MI	£9.20
Apollo Front Panel	Bs	Kuma	20K	C	KU	£14.35
Apolloword	48K	C	KU,XI,LS	£28.70		
Apolloword	Bs	Kuma	48K	D	KU,XI,LS	£63.25
Ardensoft Toolkit	Ut	Kuma	20K	C	KU	£40.25
Artillery/Biorythms	Gm	DCS	24K	C	DAV	£3.00
Asteroids	Gm	Sharpsoft	20K	C	BR	£5.85
Astor Dodge	Gm	Kuma		C	KU,BR	£6.32
Astor Shoot	Gm	Sumlock	48K	C	SUM	£6.33
Auto Cross	Gm	Highlight S/W	6K	C	HI,MI	£4.60
Backgammon	Gm	Highlight S/W	10K	C	HI,MI	£5.75
Bank Account	Do	Highlight S/W	6K	C	HI,MI	£4.60
BASIC-C	Ut	DCS	24K	C	DAV	£16.00
BASIC-B	Ut	DCS	24K	C	DAV	£12.00
Basic Compiler	Ut	Sharp	48K	C	MI	£34.50
Basic Extensions	Ut	Kuma	20K	C	KU,XI,MI	£14.95
Basic Mod	Ut	DCS	20K	C	DAV	£5.00
Basic Plus	Ut	Kuma		C	KU	£13.80
Battleships	Gm	DCS	24K	C	DAV	£3.00
Bean Feast	Gm	DCS	24K	C	DAV	£3.00
Bingo Caller	Gm	DCS	48K	C	DAV	£3.00
Bio-Rhythm	Gm	Highlight S/W	6K	C	HI,MI	4.60
Block QC	Gm	Sharpsoft	20K	C	MI	£3.50
Block Stop	Gm	J Wolstencroft	24K	C	JW	£4.60
Blockade	Gm	Kuma	48K	C	KU,MI,XI	£6.32
Bomb Run	Gm	Sumlock	48K	C	SUM	£7.50
Bomber	Gm	Kuma	6K	C	KU,MI,XI	£6.32
Breakout	Gm	Kuma	48K	C	KU,MI,XI	£6.32
Breakout	Gm	Sharpsoft	20K	C	MI	£5.75
Bridge	Gm	Highlight S/W	22K	C	HI	£12.95
Broadwater Economic	Ed	BES	16K	C	BRo	£28.75
Simulations						
Brownian Motion	Ed	Kuma	48K	C	KU	£12.00
Bytesaver	Ut	DCS	20K	C	DAV	£4.00
CPM	Ut	Chrystal	48K	C	XI,KU	£172.50
Calc II	Bs	Kuma	20K	C	XI,KU,MI	£39.65
Camelot	Gm	Kuma	48K	C	KU,LS,MI,XI,SU	£6.32
Carols	Gm	Kuma	48K	C	KU,MI,XI	£6.32
Cash Book	Bs	Microtek	48K	C	ML	£95.00
Cash Flow Projection	Bs	NCG Ltd	36K	C	WC	£95.00
Castle Bloodstone Adventure	Gm	Sumlock	48K	C	SUM	£17.25
Casino	Gm	Kuma		C	KU	£6.32
Catch 2000/Invader	Gm	Kuma	12K	C	KU,XI,MI	£6.32
Cesil III	Ed	Kuma	20K	C	KU	£17.20
Chase	Gm	Highlight S/W	6K	C	HI,MI	£5.75
Chess	Gm	Kuma	12K	C	KU,XI,SU,BR	£12.00
Children's Maths	Ed	Kuma		C	KU	£6.32
Chrystal Basic	Ut	Chrystal	48K	C	KU,XI	£46.00
Colditz	Gm	Sharpsoft	20K	C	BR	£8.46
Combat	Gm	Highlight S/W	6K	C	HI,MI	£5.75
Combat	Gm	Kuma	12K	C	XI,KU,MI	£6.32
Commands	Gm	Sharpsoft	20K	C	MI	£5.85
Composer	Gm	Highlight S/W	6K	C	HI,MI	£5.75
Concentration	Gm	Kuma	12K	C	XI,KU,MI	£6.32
Conflict	Gm	Sumlock	48K	C	SUM	£6.33
Connect 4	Gm	Highlight S/W	6K	C	HI,MI	£4.60
Connect Four	Gm	DCS	24K	C	DAV	£3.00
Cosmiad	Gm	Highlight S/W	10K	C	HI,MI	£5.75
Cosmiad	Gm	Kuma	12K	C	XI,LS,MI,KU	£9.20
Count and Add	Ed	Highlight S/W	22K	C	HI,MI	£5.75
Cribbage	Gm	Kuma	12K	C	KU,XI	£12.00
Critical Path Analysis	Bs	NCG Ltd	36K	C	WC	£40.00
Cricket	Gm	Kuma		C	KU	£6.32
Cursed Chambers	Gm	J Wolstencroft	48K	C	JW	£5.75
Data Bank	Ut	DCS	48K	C	DAV	£6.00
Data Base	Bs	Kuma	48K	C	KU,XI	£33.95
Data File	Gm	Gamer	48K	C	JW	£29.95
Deferment Allowances	Bs	DCS	32K	C	DAV	£3.00
Demons Castle	Gm	DCS	48K	C	DAV	£3.00
Demon Drive	Gm	DCS	24K	C	DAV	£3.00
Disassembler	Ut	Kuma	20K	C	XI,KU,MI	£12.00
Donky Derby	Gm	Kuma	12K	C	XI,KU,MI	£6.32
Double Precision Basic	Ut	Sharp	48K	C	MI	£28.75
Double Precision Basic	Ut	Sharp	48K	D	KU	£46.00
Drunken Driver	Gm	Highlight S/W	6K	C	HI,MI	£5.75
Dybug	Ut	Kuma		C	KU	£16.65
Editor Assembler	Ut	Sharp	48K	C	MI	£15.50
Editor Assembler	Ut	Sharp	48K	D	KU	£51.75
Editor/Disassembler	Ut	DCS	20K	C	DAV	£12.00
Election '84	Gm	Sharpsoft	20K	C	BR	£8.45
Electronic Organ	Gm	Kuma	12K	C	KU	£6.32
Electronic Organ	Gm	DCS	48K	C	DAV	£3.00
Empire II	Gm	Sharpsoft	20K	C	MI	£5.85
Enigma	Gm	Kuma	12K	C	KU	£6.32
Escape Forth	Gm	J Wolstencroft	24K	C	JW	£4.60
Evasion	Gm	Kuma	6K	C	KU,XI	£6.32
Executive	Gm	Kuma	6K	C	KU,MI	£9.20
Exploring Africa	Gm	Kuma	6K	C	KU,MI	£6.32
F DOS	Ut	Sharp	48K	C	MI	£57.50
Fall Out	Gm	Kuma	6K	C	KU,XI	£6.32
Finance	Bs	DCS	20K	C	DAV	£3.00



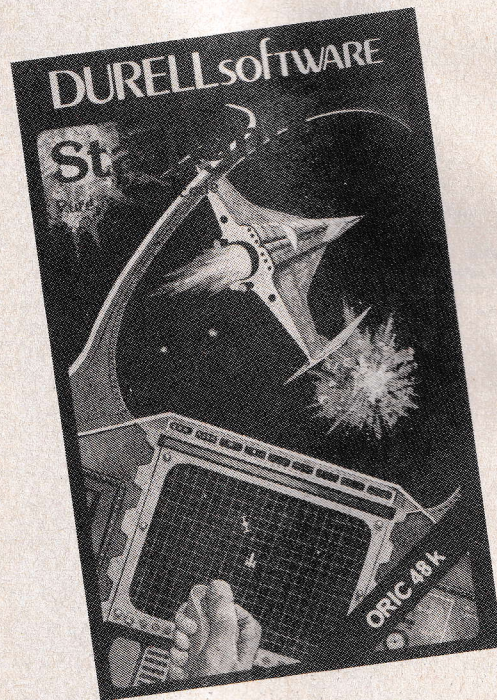
# REFERENCE

## SOFTWARE LISTING

### SHARP

Title	Program Type	Program Produced By	Memory Req'd	How Sold	Supplier Codes	Prices
Fireballs	Gm	Kuma	6K	C KU,MI		£6.32
Fishing	Gm	Sumlock	48K	C SUM		£8.50
Football Manager	Gm	Highlight S/W	10K	C MI,HI		£5.75
Forth	Ut	Kuma	C KU			£40.20
Foundry Package	Bs	Microtek	48K	C ML	POA	
Four in a Row	Gm	Kuma	6K	C XI,KU,MI		£6.32
Fox and Geese	Gm	Highlight S/W	6K	C MI,HI		£4.60
French Vocab	Ed	DCS	20K	C DAV		£3.00
Fruit Machine	Gm	Kuma	6K	C XI,KU,MI		£6.32
Fruit Machine	Gm	DCS	20K	C DAV		£3.00
Full Accounting	Bs	Microtek	48K	C ML	POA	
Games Pack 1	Gm	Sumlock	48K	C SUM		£8.50
Games Pack 2	Gm	Sumlock	48K	C SUM		£8.50
Gamestape 1	Gm	DCS	48K	C DAV		£8.00
Gamestape 2	Gm	DCS	48K	C DAV		£8.00
Gamestape 3	Gm	DCS	48K	C DAV		£8.00
Gamestape 4	Gm	DCS	48K	C DAV		£8.00
Geography	Ed	DCS	20K	C DAV		£3.00
Guess Word	Gm	Kuma	6K	C KU,MI		£6.32
Hangman	Gm	Kuma	6K	C KU,MI,XI		£6.32
Hangman	Gm	DCS	20K	C DAV		£3.00
Head On	Gm	Highlight S/W	10K	C MI,KU		£6.90
Head On	Gm	Kuma	6K	C MI,KU,XI		£6.32
Head On	Gm	Sharpsoft	20K	C BR		£5.85
Hissing Sid	Gm	Kuma	C KU			£6.32
Home Budget I	Do	Kuma	6K	C KU,LS,XI,MI		£6.32
Hunter Killer	Gm	Kuma	48K	C KU,MI		£6.32
I Spy	Ed	Highlight S/W	22K	C HI		£5.75
Instant Addition And The Four Rules	Ed	Kuma	48K	C KU		£6.32
Intruder	Gm	Kuma	48K	C KU,MI,XI		£6.32
Invaders	Gm	Kuma	20K	C SU		£6.30
Invoice Control	Bs	David Computer Software	48K	C DAV		£6.00
J S Line 4	Gm	Kuma	48K	C KU,MI		£6.32
Junior Maths and Stepping Stones	Ed	Kuma	48K	C KU		£6.32
Juntori	Gm	Sharpsoft	20K	C MI		£5.85
Kentucky Derby	Gm	Kuma	C KU			£6.32
Knights Commander	Ut	Knights	48K	C KU		£28.75
Knights Commander	Ut	Knights	48K	D KU		£74.75
Knights Fortran	Ut	Knights	48K	C KU		£34.50
Knights Wee Pascal	Ut	Knights	48K	C KU		£23.00
Large Display	Gm	Kuma	48K	C KU		£6.32
Las Vegas	Gm	Sharpsoft	20K	C MI		£5.85
Ledger	Bs	NCG Ltd	40K	C WC		£90.00
Letterwriter WP	Bs	David Computer Software	48K	C DAV		£10.00
Life	Gm	Kuma	48K	C KU,XI,MI		£9.20
Linear Programming	Bs	NCG Ltd	20K	C WC		£45.00
LP Gas Flow	Bs	DCS	20K	C DAV		£3.00
Lunar	Gm	Kuma	48K	C KU,XI,MI		£6.32
Lunar Lander	Gm	Kuma	48K	C KU,XI,MI		£6.32
MZ Othello	Gm	Kuma	48K	C KU		£12.00
Machine Code Editor	Ut	DCS	24K	C DAV		£14.00
Machine Code Editor	Ut	DCS	48K	C DAV		£14.00
Madness	Gm	J Wolstencroft	24K	C JW		£4.60
Mailing List	Bs	DCS	48K	C DAV		£6.00
Maniac	Gm	Highlight S/W	6K	C MI,HI		£5.75
Man on the Run	Gm	Sumlock	48K	C SUM		£6.33
Map of England	Gm	Kuma	48K	C XI		£6.32
Map of Englad	Gm	Kuma	48K	D KU		£12.00
Mastermind	Gm	Highlight S/W	6K	C HI,MI		£4.60
Mastermind	Gm	Kuma	48K	C KU,LS,XI,MI		£6.32
Match the Character	Ed	Highlight S/W	22K	C MI,HI		£4.60
Match the Word	Ed	Highlight S/W	22K	C MI,HI		£5.75
Maths	Ed	Highlight S/W	22K	C MI		£5.75
Maths 1	Ed	DCS	48K	C DAV		£3.00
Maths 2	Ed	DCS	48K	C DAV		£3.00
Maths 3	Ed	DCS	48K	C DAV		£3.00
Maths 4	Ed	DCS	48K	C DAV		£3.00
Maths 5	Ed	DCS	48K	C DAV		£3.00
Maths 6	Ed	DCS	48K	C DAV		£3.00
Melody	Gm	Kuma	48K	C KU		£6.32
Memory Tests	Ut	Kuma	20K	C KU,MI,XI		£6.32
Minefield	Gm	Kuma	48K	C KU		£6.32
Missile Defence	Gm	Sumlock	48K	C SUM		£8.50
Miz-Maze	Gm	Kuma	48K	C KU,XI		£6.32
Monkey Climb	Gm	Kuma	48K	C KU,XI		£6.32

Moonlander	Gm	Highlight S/W	10K	C HI,MI		£5.75
Mortar Attack	Gm	Kuma	48K	C KU,XI		£6.32
Music Composer/Editor	Ed	Kuma	48K	C KU,XI,LS		£12.00
Multiple Regression	Ed	NCG Ltd	24K	C WC		£65.00
Navex	Ed	Kuma	48K	C KU		£28.70
Pac Man	Gm	Kuma	48K	C KU		£9.20
Pascal	Ut	Sharp	48K	C MI		£34.50
Patience	Gm	Kuma	48K	C KU,XI		£6.32
Payroll	Bs	Microtek	48K	C ML		£65.00
Payroll	Bs	NCG Ltd	40K	C WC		£150.00
Payroll 81-C	Bs	Sumlock	48K	C SUM		£74.75
Payroll 81-D	Bs	Sumlock	48K	C SUM		£74.75
Payroll	Bs	Tridata	48K	D TR		£170.00
Pelmanism	Gm	Sumlock	48K	C SUM		£5.75
Physics 1	Ed	DCS	48K	C DAV		£3.00
Physics 2	Ed	DCS	48K	C DAV		£3.00
Picture Count	Ed	Highlight S/W	22K	C MI,HI		£5.75
Pilot	Ut	Kuma	48K	C KU		£17.25
Poker	Gm	Kuma	48K	C KU,HI,XI		£6.32
Polaris	Gm	Sumlock	48K	C SUM		£6.50
Pontoon	Gm	Kuma	48K	C KU,HI,XI		£6.32
Poseidon	Gm	Highlight S/W	6K	C MU,HI		£5.75
Poster Printer	Bs	DCS	48K	C DAV		£3.00
Princess & Monster Maze	Gm	Kuma	48K	C KU,MI		£6.32
Program Filing Index	Bs	Kuma	20K	C KU		£6.32



Quadrax	Gm	Kuma	48K	C KU,MI,XI		£6.32
Quest	Gm	J Wolstencroft	48K	C JW		£4.60
Race Track	Gm	Kuma	48K	C KU,MI,XI		£6.32
Racing	Gm	Kuma	48K	C KU		£6.32
Raider	Gm	Kuma	48K	C KU,MI,XI		£6.32
Ram Test	Ut	DCS	48K	C DAV		£3.00
Reactor	Gm	Kuma	48K	C KU,MI		£6.32
Reportwriter WP	Bs	David Computer Software	48K	C DAV		£8.00
Rhymes	Gm	Kuma	48K	C KU,MI		£6.32
Road Hunter	Gm	Kuma	48K	C KU,MI,XI		£6.32
Rocket	Ed	Kuma	48K	C KU		£6.32
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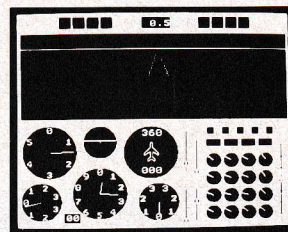
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