

Personal Computing Today

February 1984

80p

Software
Special

MTX 512
This mighty
Memotech
on test

Software to
key in for
BBC, VIC 20,
Atari, Texas,
Spectrum,

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Every computer needs
CHATTERBOX II
 "Listen creep, I am the leader...."

For ZX81
SPECTRUM
 BBC
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 APPLE
 NASCOM
 VIC/PET/64
 (Please state)

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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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As seen on BBC TV "Computer Programme"

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 FOR ANY
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ONLY £49

Hugely successful Speech Recognition System. complete with microphone, software and full instructions.

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PLEASE STATE COMPUTER: UK101,
 SPECTRUM, ATOM, NASCOM2, Vic 20, Micron,
 ZX80/81, PET, TRS80, MZ80K, APPLE II, BBC MICRO

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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S 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



W 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

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

KIT £16
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Please add VAT at 15% to prices.
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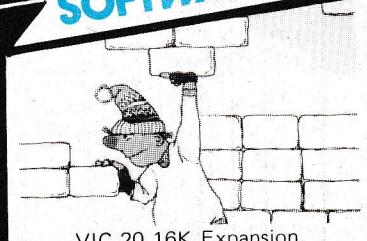
Quarley Down House
 Cholderton
 Nr. Salisbury
 Wiltshire, SP4 0DZ
 Tel: 098 064 235



PARAMOUNT
SOFTWARE

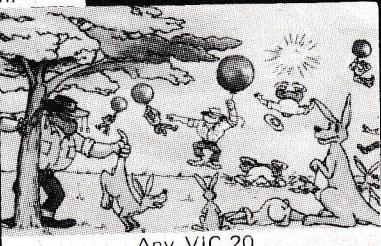
A Registered Trading Name
 of Workstations Ltd.

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



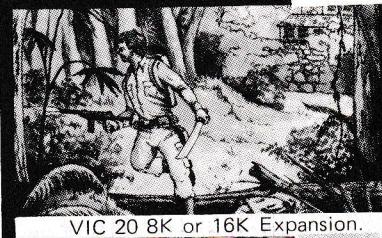
OUTBACK - Can you use the very sophisticated defence set-up to beat off the cunning Swagmen? How long will you survive? Pure Machine Code action. Fully featured. Superb colour and graphics. Agame Joystick.

£5.50



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.

£5.50

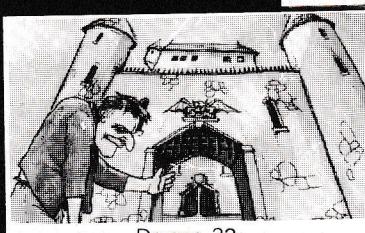


MEGAWARZ - Where does your fantasy go when your mind leaves your body? Megawarz will take you there you can be sure. High resolution, multi-colour graphics. Sprite graphics. Synthsound. Pure Machine Code action. Arcade standard. A magical planetary trip. Keyboard or Joystick.

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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!

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BBC Microcomputer System

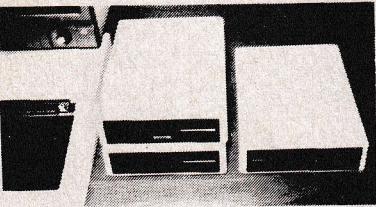
OFFICIAL BBC COMPUTER DEALER

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 £349 + 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 80K 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) £96 + VAT = £106.50
 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 £20 + VAT = £23.00
 Games paddles £11 + VAT = £12.65
 12" Monochrome monitor incl. cable £89 + VAT = £102.35
 16" Colour monitor incl. cable £239 + VAT = £274.85
 User guide £10 + VAT = £10.00
 Econet interface (free fitting) £68 + VAT = £69.00
 Speech interface (free fitting) £47 + VAT = £54.05
 BBC disk manual - formating disk £30 + VAT = £34.50
 Parallel printer cable £10 + VAT = £11.50
 BBC word processor (view) £52 + VAT = £59.80
 BBC Fourth language cassette £15 + VAT = £17.25
 BBC Lisp language cassette £15 + VAT = £17.25

100% BBC COMPATIBLE MITSUBISHI AND TEAC SLIMLINE DISK DRIVES



These drives are supplied ready cased with all the necessary cables, formating 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.

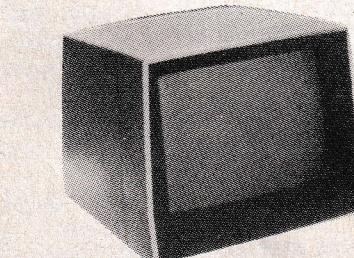
Single drive 100K 40 tracks £169 + VAT = £194.35
 Dual drive 200K 40 tracks £329 + VAT = £378.35
 Single drive 400K 80 tracks £239 + VAT = £274.85
 Single drive 400K 40 tracks switchable £259 + VAT = £297.85
 Dual drive 800K 80 tracks £449 + VAT = £516.35
 Dual drive 800K 40 tracks switchable £469 +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

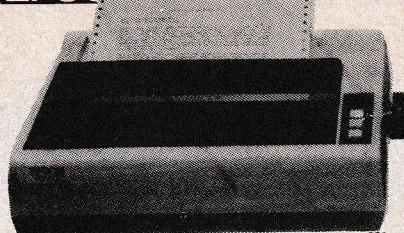
COLOUR MONITORS

* 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

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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 pinfeed, 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

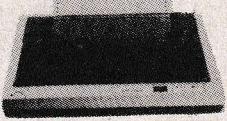
Tractor feed for FX80 £79 + VAT = £90.85

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 Quite printing mode, Centronic parallel interface.

GP-700A SPECIAL INTRODUCTORY PRICE £349 + VAT = £401.35

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The most cost effective quality matrix printers to be launched this year. DP510 and DP515 features include friction and tractor feed and roll holders as standard. 100 CPS print speed bi-directional logic seeking 9 x 9 matrix gives true descenders, 2.3K buffer as standard hi-res bit image plus block graphics, sub and super script, italic printing, auto underlining, vertical and horizontal tabulation, left and right margins set, skip over perforation, back space and self test.

STAR DP510: 10" carriage 80 columns.

SPECIAL PRICE £239 + VAT = £274.85

STAR DP515: 15" carriage 136 columns.

SPECIAL PRICE £279 + VAT = £320.85

RS232 INTERFACE FOR ABOVE £50 + VAT = £57.50

POCKET COMPUTERS AND CALCULATORS

* CASIO PB-10: 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

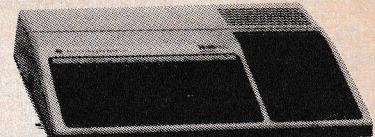
ORDERING INFORMATION

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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We welcome callers, no parking problems.

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

TI 99/4A

Complete with UHF modulator and power supply £89.95

PERIPHERALS

Speech

Synthesizer £41.95

Peripheral Expansion System

Disk Drive - Internal £79.95

Disk Controller

Card £149.95

Disk Drive

Double Sided £109.95

Disk Drive

External £219.95

RS232

Expansion Card £259.95

RAM

Expansion Card £279.95

P-Code Card

Matrix Printer £189.95

Matrix Printer

Matrix Printer GP-100A £219.95

GP250X

Epson RX80 £273.95

Printer £297.85

Please send S.A.E. for software prices

THE AFFORDABLE DAISYWHEEL PRINTER



* 18 CPS - Bi-Directional Logic Seeking

* 10, 12, 15 CPI + Proportional Spacing

* Drop in" Daisywheel - Triumph Adler Compatible

* Supports all Wordstar features

* Diablo protocols - IBM Selectric ribbon

* 2K Buffer as standard - 100 character Daisywheel

SPECIAL OFFER JUKI 6100 DAISYWHEEL £369 + VAT = £424.35

THE CP80 QUALITY PRINTER



ONLY £219 + VAT

* 8 CPS - Bi-Directional Logic Seeking 80 Column

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

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Internal cassette recorder option £33 + VAT =

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Internal 4 colour printer plotter option

£109 + VAT = £125.35



TI99/4A SOFTWARE

Four great games for the unexpanded TI99/4A

PILOT

Flight simulation game for one player. Graphics display of landing strip and terrain map, plus updated instrument panel. Options for take-off, landing or in flight. Full instructions included. Graphics and sound.

TI TREK

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

SORCERER'S CASTLE

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

Dare you enter and explore the gloomy Victorian mansion? Treasures await the brave, but stay after midnight and you will be joined by assorted perils including a moving skull and a spooky ice cold mist. Text.

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APEX SOFTWARE

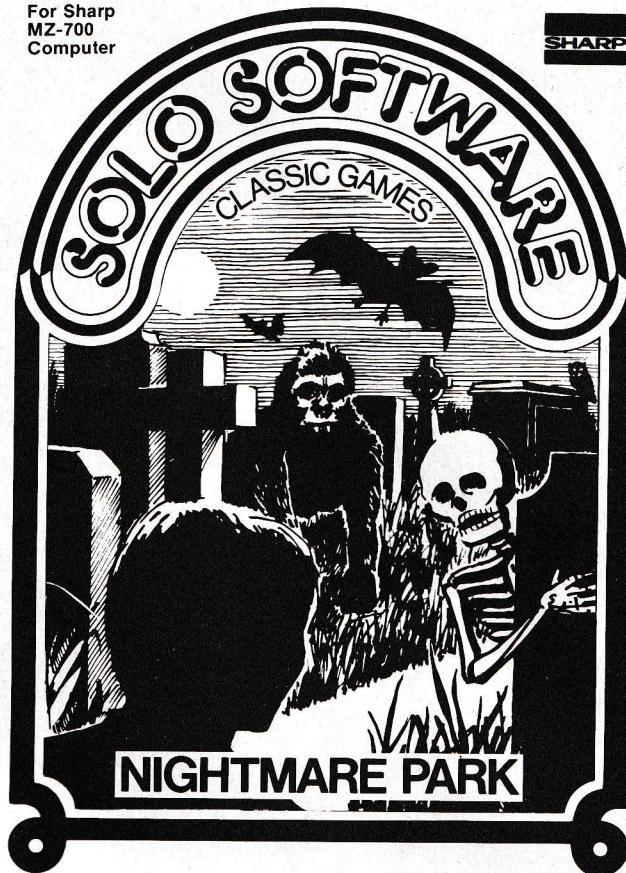
Swiss Cottage, Hastings Road,
St. Leonards-on-Sea,
E. Sussex TN38 8EA



TEL: Hastings (0424) 53283



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ORIC 1

Oric Products International,
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

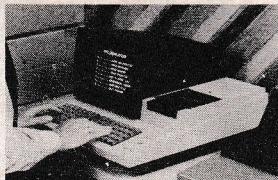
DETAILS	PRICE
N/A	£169.95
Yes	—
Yes	—
TBA	—
FORTH	—
No	—
TBA	—

OTHER ADD-ONS:

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

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
No	—
Yes	£450-800
N/A	—
Yes, dual	£600
Yes	£45 upwards
No	—
No	—

OTHER ADD-ONS:

None Reported

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	—
Printer	£450-800
Monitor	—
Disc Drives	£600
Other Languages	£45
Multi-user Capabilities	—
BASIC extensions (Toolkits)	—

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
16K RAM pack	£29.95
ZX Printer	£59.95
Monitor	—
Disc Drives	—
Other Languages	—
Multi-user Capabilities	—
BASIC extensions (Toolkits)	—

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, Ashtead, Surrey, £59.95; **Key Bleep Unit**, Microtronix, 3 Buxton Avenue, Coulton, Nottingham, NG9 3RR, £8.85 kit, £9.95 built; **Maximem 1.1**, East London Robotics, Finlandia House, 14 Darwell Close, East Ham, London, E8 4BT, £93.50; **Music Synthesiser + 16 line control port**, William Stuart Systems Ltd, Dower House, Billicay 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 Read	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	Tomorrow's 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		£9.95
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
Fishermen's 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	Tomorrow's 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	Tomorrow's 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
Wriggler	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

AA A & F Software
10 Wilshire Avenue
Longsight
Manchester
061 320 5482

JE J Edwards
20 Southern Road
West End
Southampton

AR Arcadia Software
Freepost
Swansea
SA3 4ZZ

JU Juniper Computing
8 Pembroke Green
Lea
Malmesbury
Wiltshire
SN16 9PB
06662 2689

ASI ASL Software
66 Fford Llywelyn
Little Acton
Wrexham
Clwyd

JW J Wolstencroft
Sagar Fold
Bleasdale
Preston
Lancs
0995 6327

BA Basic Concepts
PO Box 46
Leatherhead

KE Kenema Associates Ltd
1 Malborough Drive
Worle
Avon
0934 21315

BU Burslem Computer Centre
74 Waterloo Road
Burslem
Stoke on Trent
Staffs ST6 3EX
0782 825555

PA PASE
213-215 Market Street
Hyde
Cheshire
061 366 5935

CAs Cascade Software
Cascades House
Bargans Lane
Llandogo
Gwent NP5 4PA

PSs PSS
452 Stoney Stanton Road
Coventry
0203 667556

CCs C.C.S.
14 Langton Way
Blackheath
London
SE3 7TL
01 858 0763

SA Salamander Software
17 Norfolk Road
Brighton
W Sussex
0273 771942

Cot Computamaster
17 New Belt Avenue
Cheam
Surrey SM3 8ED

TA Tansoft
3 Club Mews
Ely
Cambridge
0353 2271

Cov Computasolve Ltd
8 Central Parade
St Marks Hill
Surbiton
Surrey KT6 4PJ
01 390 5135

TI Titan Programs
The Computer Palace
46 Market Place
Chippingham
Wiltshire
0249 653824

FB FBC Systems Ltd
10 Castelfields
Main Centre
Derby
0332 365280

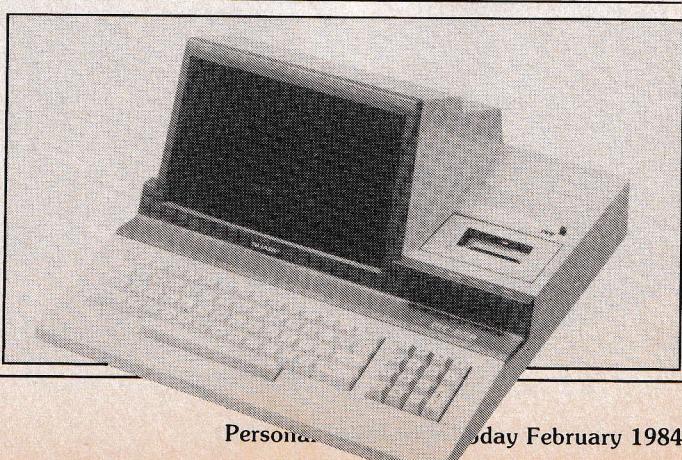
TO Tomorrows World
118 Worcester Road
Malvern
Worcester
06845 62467

HEa Headfield Technology Ltd
Lock Street
Saville Town
Dewsbury WF12 9BW
0924 461327

UT UTS
PO Box 96
Harrogate
N Yorks
HG3 2UZ

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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
Aldebaran I	Gm	Sharpsoft	20K	C BR	£5.85
Alien Attack	Gm	Sumlock	48K	C SUM	£6.50
Alien Attack	Gm	J Wolsencroft	24K	C JW	£4.60
Analysis Book	Bs	Microtek	48K	C ML	£95.00



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Supplier Code

BI Bar Instrument Company
Flixton Road
Manchester M31 3BG

BR Brighton Gamer
24 Gloucester Rd
Brighton
Sussex
0273 698424

BRo Broadwater Economic Simulations
24 Hill Barn Lane
Worthing
W Sussex

CA Carswell Computers
Carswell Barn
Faringdon
Oxon SN7 8JN

DAv David Computer Software
38 South Parade
Bramhall
Stockport SK7 3BJ
061 439 4841

EP Epsom Computers
25 Chartwell Place
Epsom
Surrey

HI Highlight Software
3 Nether Court
Halstead
Essex
0787 475714

JW J Wolstencroft
Sagar Fold
Preston
Lancs
09956 327

KU Kuma Computers
11 York Road
Maidenhead
Berks
0628 71778

LS Laskys
7-9 Queensway
London W2 3RX
200 0444

MI Micro & Video Palace
652-64 Kensington High St
London W8
01 637 0366

ML Microtek Ltd
15 Lower Brook Street
Ipswich
Suffolk
0473 50512

SOI Solo Software
51 Broad Street
Worcester WR1 3LR
0905 26524

SUM Sumlock Electronic Services
Royal London House
198 Deansgate
Manchester M3 3NE
061 834 4233

SU Superior Systems Ltd
178 West Street
Sheffield
0742 755005

TR Tridata Micros Ltd
Smithfield House
Digbeth
Birmingham
B5 6BS
021 662 6085

UR Urmston Computer Centre
Flixton Road
Urmston
Manchester

WC WCG Ltd
Lettergesh
Renvyle
Co. Galway
Republic of Ireland

WO Work Force
140 Wilsden Avenue
Luton
Beds LU1 5HR

YO Youngs of Leicester
40/42 Belvoir Street
Leicester



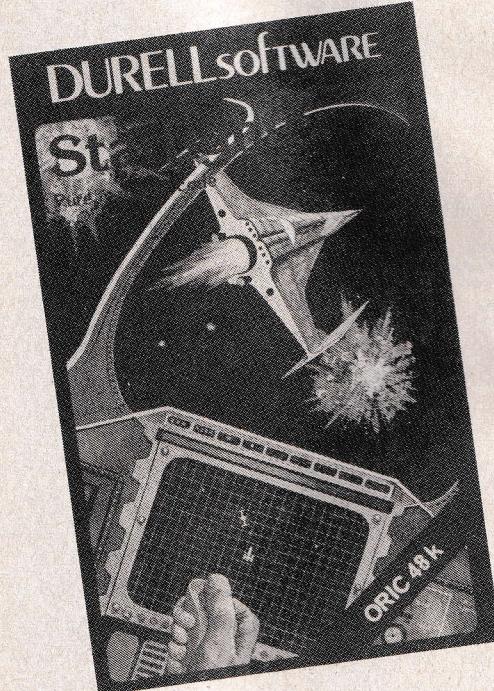
Animate	Gm	Kuma	48K	C	KU,XI,MI	£9.20
Apollo Front Panel	Bs	Kuma	20K	C	KU	£14.35
Apolloword	Bs	Kuma	48K	C	KU,XI,LS	£28.70
Apolloword	Bs	Kuma	48K	D	KU,XI,LS	£63.25
Ardensoft Toolkit	Ut	Kuma	20K	C	KU	£40.25
Artillery/Biorythms	Gm	DCS	24K	C	DAv	£3.00
Asteroids	Gm	Sharpsoft	20K	C	BR	£5.85
Astor Dodge	Gm	Kuma	48K	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	20K	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,MLXI	£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 Simulations	Ed	BES	16K	C	BRo	£28.75
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,	£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	12K	C	KU,MI	£6.32
Catch 2000/Invader	Gm	Kuma	20K	C	KU	£17.20
Cesil III	Ed	Kuma	6K	C	HI,MI	£5.75
Chase	Gm	Highlight S/W	12K	C	KU,XI,SU,BR	£12.00
Chess	Gm	Kuma	12K	C	KU	£6.32
Children's Maths	Ed	Kuma	48K	C	KU,MI,XI	£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
Commands	Gm	Kuma	12K	C	XI,KU,MI	£6.32
Composer	Gm	Sharpsoft	20K	C	MI	£5.85
Concentration	Gm	Highlight S/W	6K	C	HI,MI	£5.75
Conflict	Gm	Sumlock	12K	C	XI,KU,MI	£6.32
Connect 4	Gm	Highlight S/W	48K	C	SUm	£6.33
Connect Four	Gm	DCS	6K	C	HI,MI	£4.60
Cosmiad	Gm	Highlight S/W	24K	C	DAv	£3.00
Cosmiad	Gm	Kuma	10K	C	HI,MI	£5.75
Count and Add	Ed	Highlight S/W	12K	C	XI,LS,MI,KU	£9.20
Cribbage	Gm	Kuma	22K	C	HI,MI	£5.75
Critical Path Analysis	Bs	NCG Ltd	12K	C	KU,XI	£12.00
Cricket	Gm	Kuma	36K	C	WC	£40.00
Cursed Chambers	Gm	J Wolstencroft	48K	C	KU	£6.32
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	48K	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 Read	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
Junior	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,MI,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,MI,MI		£6.32
Lunar Lander	Gm	Kuma	48K	C KU,MI,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 England	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
Missle Defence	Gm	Sumlock	48K	C SUM		£8.50
Miz-Maze	Gm	Kuma	48K	C KU,MI		£6.32
Monkey Climb	Gm	Kuma	48K	C KU,MI		£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 MI		£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	D 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



ZX81 DEALERS

UFO	Gm	Kuma	6K	C	KU,LS	£6.32
Video Draughts	Gm	DCS	48K	C	DAv	£3.00
War at Sea	Gm	DCS	48K	C	DAv	£3.00
Wizards Quest Adventure	Gm	Sumlock	48K	C	SUM	£10.50
Wordpro	Bs	Kuma	48K	C	KU,LS	£45.45
Wordpro	Bs	Kuma	48K	C	KU,LS	£91.95
Wordprocessor LW	Bs	DCS	48K	C	DAv	£10.00
Wordprocessor RW	Bs	DCS	48K	C	DAv	£8.00
Utility Tape 1 - Maths	Ed	DCS	48K	C	DAv	£8.00
Utility Tape 2 - Maths/Physics	Ed	DCS	48K	C	DAv	£8.00
Y Geirfa	Ed	DCS	20K	C	DAv	£3.00
Zen Dos	Ut	Kuma	4K	C	KU	£66.16
Zen Editor Assembler	Ut	Kuma	20K	C	KU,MI,XI	£22.45
Zenmod	Ut	Kuma	4K	C	KU,MI	£12.00
Z-80 Disassembler	Ut	Sumlock	48K	C	SUM	£12.00

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1K Chess	Gm	Artic	1K	C	ARt	£2.95
1K Fun Learning	Ed	A.Parsons	1K	C	APa	£3.95
1K Games Pack	Gm	Artic	1K	C	ARt,THs	£6.00
1K Maths	Ed	Mr Purves	1K	C	JP	£3.50
1K Super Trio	Gm	Software Masters	1K	C	XI	£7.95
16K Fun Learning	Ed	A.Parsons	16K	C	JP	£4.95
16K Games	Gm	Serious S/W	16K	C	SEr	£5.95
16K Maths	Ed	Mr Purves	16K	C	JP	£3.50
3-D Labyrinth	Gm	dK'tronics	16K	C	DK	£3.95
3-D Monster Maze	Gm	J K Greye	16K	C	BUf	£4.95
Adventure	Gm	Anglo American	16K	C	AN	£6.00
Adventure A	Gm	Artic	16K	C	ARt,THs,BUf	£6.00
Adventure B	Gm	Artic	16K	C	BUf	£7.00
Adventure C	Gm	Artic	16K	C	BUf,MI	£8.00
Adventure I	Gm	Abersoft	16K	C	BUf,ABe	£9.95
Angle	Ed	AVC Software	16K	C	AVc	£3.00
Adventure	Gm	Abersoft	16K	C	BUf,ABe	£8.95
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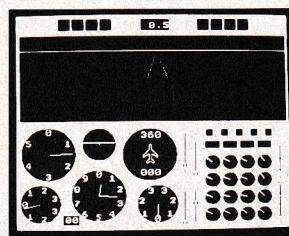
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