

NEW DISC-FIX ROM

This ROM is an integrated, menu-driven DISC MAINTENANCE PACKAGE. Using simple menu selections, with intelligible prompts for any input required, the user can recover data from damaged discs. Facilities include:-

- Full screen editing of sectors on the disc.
- Sectors can be found by file name or sector number.
- Files and sectors can quickly and easily be dumped to a printer for examination and possible subsequent modification.
- COPY; blocks of data can be copied from any point on the disc to any other point. Blocks can be as small as one byte and can be transferred anywhere in a sector.
- SEARCH: The disc can be searched for any string, starting and finishing at any designated sector.
- VERIFY: Any block of sectors can be checked for their validity.
- FORMAT: Any track or group of tracks can be individually formatted to Acorn or Watford DFS standard.
- INSERT: Allows the manual creation of new directory entries to allow "undeletion" of files.
- BACKUP: This is similar to normal DFS backup but allows recovery after a disc error. Completely compatible with both Acorn and Watford Disc Filing Systems. Instruction manual supplied.

Price **£19.00**

TINY PASCAL (in 16K ROM)

PASCAL-T is capable of compiling source PASCAL into a compact very fast threaded-interpreters-code. Full editor and disc support are included. Comprehensive documentation supplied **£59**

EDUCATION Software

JUNIOR MATHS PACK (32K) £6.95

Makes learning fun for 5-11 year olds. This package consists of 3 programs (menu driven) that increase in difficulty as your child becomes competent. A very good supplement to standard educational methods.

MATHS TRANSLATIONS £5.50

This package explains how to translate Triangles and Quadrilaterals, moving these geometrical shapes on a grid. It goes step by step through the concepts and the matrix calculations involved. Excellent software.

WORLD GEOGRAPHY (32K) £7.00

Beautifully drawn Hi-Res colour map of the world illustrates and aids this graded series of tests on capital cities and populations of the world.

WORDHANG £7.80

(Age 7-13). A word guessing program based on the well known Hangman game. Uses full colour graphics. Complete with 260 words and the facility save your own list of words.

WORLDWIDE £7.80

(Age 7-15). Two constructive geography programs allowing children to build detailed data bases covering both the UK and the world. Encourages children to refer to atlas and reference books. Save the database anytime.

ANIMAL/VEGETABLE/MINERAL £4.95

(Age 7-13). Provides an opportunity for children to teach the computer to differentiate between objects. The program tries to guess the object the child has thought of, using personalised responses like Mmm... I am thinking.

BRITISH GEOGRAPHY £6.95

Teaches a child the locations of Cities and Ports using directional keys.

CAROUSEL £5.50

Aimed at junior school age. Sequences of colours and sounds teaches a child to concentrate.

HAPPY NUMBERS £7.80

(Age 4-6). No reading skills are required to use this colour graphics number recognition and counting program. Children build patterns of flowers corresponding to figures, quickly learning their significance.

INTRO TO ARITHMETIC £10.45

4 programs - Additions, subtractions, multiplications and divisions. Help stage, moving graphics and colours. Worksheet produced at the end of program. (5-7 years old).

BBC JOYSTICKS

Two versions available:

SINGLE: Player type **£7.00** each
TWO Players type **£11.50** per pair

VOLTMACE'S DELTA 14 Hand-set

Highly acclaimed at the Acorn User Show. This handset set is very reliable and versatile. For further details please see VOLTMACE's advert in this magazine.

Price: 'Delta 14' Hand set **£11.25**
ADAPTOR MODULE **£11.95**
TRANSFER PROGRAM **£5.15**
Tape **£7.75**
Disc **£7.75**

SURGE PROTECTOR Plug

Safely eliminates dangerous voltage surges. During a thunderstorm, a nearby lightning strike can induce high voltage spikes in the voltage supply or fluctuating loads can also result in transient overvoltages which if unchecked, lead to expensive data corruption/loss. Our surge protection plug will provide the necessary surge protection. Simply replace your standard 13Amp mains plug with the surge protection plug (which is almost the same size). Ideal for computers, Hi-Fi systems, precision instruments, fridge freezers, etc. Max. surge current 2KAmp; Max. Voltage 250 Volts.

Price: **£7**

PLINTH FOR BBC MICRO

Protect your micro from the weight of the heavy TV/Monitor. This sturdy plinth is attractively finished in BBC colour. It can be used to support a monitor or a printer. The micro slides underneath comfortably. A must for every BBC Micro owner, specially for those who have to move/open their computer frequently.

Price: **£10** (carr. **£1.50**)

PLINTH FOR PRINTERS

Keeps your desk tidy. Place the printer on the plinth and the paper underneath. Finished in BBC colour.

£10 (carr. **£1.50**)

BEEB SPEECH SYNTHESISER

Simply the best!

Watford's very own speech system, specially designed so that even a novice can make his BBC talk.

PHONEMES for word synthesis allows unlimited vocabulary. Software in ROM supplied with the unit. The system is built in a small plastic box. Very compact. Connects directly to the user port.

Price including Manual: **£39**

DISC EXECUTOR

Disc Executor is a sophisticated disc utility, designed for the BBC Micro, which allows you to transfer almost all of your tape software to disc. It will handle 'Locked' programs and allows you to load full length adventure type programs (i.e. up to &6E blocks) from disc in seconds rather than minutes.

Price: **£12**

Yes it's here... the NEW ROM you have been waiting for!!!

BEEB PRINTER ROM

Are you fed up with not being able to unravel your printer manual and use all those features you paid for? Need sensible paging for use in the creation of booklets? Then you certainly need our Beeb Printer ROM.

A machine code printer utility in ROM.
* 'Single' key operations replace control code sequences for underline, front and size selection, paper movement, etc. Up to 30 come pre-defined, without effecting normal fn key usage.

* Automatic fanfold page margins. Puts gaps in listings. PRINTed text etc to skip the folds. The gap size alternates to minimise paper wastage when using binders.

* Form feed and related commands, made available on ALL printers. Can also provide a left margin.

* User defined characters embedded within text are printed as on VDU.

** Commands select option for GP100, STAR, NEC, MX/FX, LP VII/DMP100, DMP200. Operates with parallel interface printers and is turned on by *FX5,3.

Supplied complete with Manual.

Price: **£24**

(When ordering, please specify the make of printer you have.)

ATTACHE CARRYING CASE for BBC Micro

These Attache Carrying cases are attractively finished in mottled antique brown leatherette. An ideal and very safe way to carry your BBC Microcomputer. **£12** (£2 carr.)

GAMES SOFTWARE (PROGRAM POWER)

- ALIEN DESTROYER **£6.95**
- ANDERIOD ATTACK (C.Concept) **£6.95**
- CHESS **£6.95**
- COWBOY SHOOTOUT **£5.95**
- CROACKER **£6.95**
- Escape from Moonbase ALPHA **£6.95**
- GALACTIC INTRUDER **£6.95**
- GALACTIC COMMANDER **£6.95**
- KILLER GORILLA **£6.95**
- LASER COMMAND **£6.95**
- MUNCHYMAN **£5.95**
- MASTERMIND **£4.95**
- MOONRAIDER **£6.95**
- MICRO BUDGET **£7.95**
- PENGO (Watford) **£7.75**
- SWOOP **£6.95**
- SEEK **£5.95**
- 747 FLIGHT SIMULATOR **£7.75**

LEVEL 9 ADVENTURE GAMES

COLOSSAL ADVENTURE. The classical mainframe game "Adventure" with all the original puzzles plus 70 extra rooms. **£8.65**

ADVENTURE QUEST. Through forest, mountains, desert, caves, water, fire, moorland and swamp on an epic quest vs tyranny. **£8.50**

DUNGEON ADVENTURE. Over 100 puzzles in the Demon Lord's dungeons. **£8.50**

SNOWBALL. Save a 7000 location colony spaceship in 2302 AD. **£8.50**

WATFORD ELECTRONICS

Dept. BBC, CARDIFF ROAD, WATFORD, HERTS. ENGLAND.

Tel: Watford (0923) 40588/37774 Telex: 8956095 WAELEC

BBC MICROCOMPUTER

Model A—£260; Model B—£346

Upgrade your Model A with our Upgrade Kits and save yourself £ s s

- BBC1 16K Memory (8 x 4816AP-3 100nS) **£20.00**
- BBC2 Printer User I/O Port **£7.10**
- BBC3 Disc Interface Kit **£85.00**
- BBC4 Analogue I/O Kit **£7.25**
- BBC5 Serial I/O Kit **£7.50**
- BBC6 Expansion Bus Kit **£6.75**
- Complete Mod. A to B Upgrade Kit **£48.00**

Dust Cover for BBC Micro

Protects your expensive Micro from foreign bodies. **£3.95**

DISC DRIVES (CUMANA) BBC COMPATIBLE



- New Teac Slimline Uncased Drive S/S 40 track, 5 1/4", 100K **£135**
- New TEAC Slimline Cased without PSU, S/S, 40 track, 5 1/4", 100K **£145**
- CS100 - TEAC Cased with own Power Supply, S/S 40 track, 5 1/4", 100K **£180**
- CD200 - TEAC Twin Cased with own PSU, S/S, 40 track, 5 1/4", 200K **£350**
- CS200 - TEAC Single Cased with own PSU, S/S, 80 track, 5 1/4", 200K **£250**
- CD400 - TEAC Twin Cased with own PSU, S/S, 80 track, 5 1/4", 400K **£475**
- CS400 - TEAC Single Cased with own PSU, D/S, 80 track, 5 1/4", 400K **£310**
- CD800 - TEAC Twin Cased with own PSU, D/S, 80 track, 5 1/4", 800K **£599**
- MITSUBISHI Slimline - Uncased, double density. Double track, 5 1/4", 1 Megabyte, track density 96TPI, track to track access time 3mSec. Plugs directly to BBC Micro. **ONLY £220**
- SINGLE MITSUBISHI Slimline - Cased with own PSU, DS/DD, 1 Megabyte. (400K with BBC) **£275**
- TWIN MITSUBISHI Slimline Cased with own PSU, DS/DD, 2 Megabytes. (800K with BBC) **£535**
- Single Drive Cable for BBC Micro **£7**
- Twin Drive Cable for BBC Micro **£10**
- Dual SWITCHABLE DRIVES, 40/80, 400K. Cased with own PSU, Slimline **£495**

5 1/4" DISKETTES

- 5 year warranty
- 10 Verbatim or 3M Diskettes, 5 1/4", S/S **£20**
- 10 Verbatim or 3M Diskettes, 5 1/4", D/S **£30**
- 2 year warranty
- 10 WABASH Diskettes, 5 1/4", S/S **£15**
- 10 WABASH Diskettes, 5 1/4", D/S **£25**
- Carriage on Drives **£7**

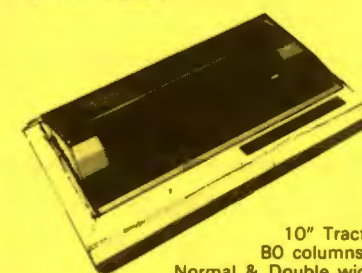
DISC ALBUMS

Attractively finished in beige leatherlook vinyl. Stores, protects and displays 20 discs in double-sided clear view pockets. **ONLY £4.95**

PLASTIC LIBRARY CASES

for Disc Storage 5 1/4" (holds 10) **£2**

BBC PRINTER GP100A



10" Tractor Feed, 80 columns, 30CPS Normal & Double width Char. Dot res graphics. Parallel Interface standard. **ONLY £165** (£7 carr.)

INTERFACE CABLE

BBC to Seiksha Cable **£10.00**

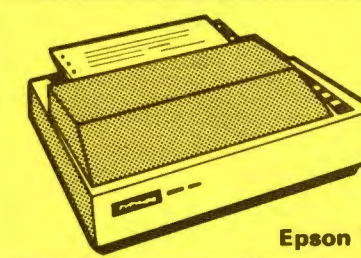
DUST COVER for GP100 **£3.95**

FRICTION FEED

Attachment for GP100A or 250X Printers **£22**

- Spare RIBBON for GP80 **£4.50**
- Spare RIBBON for GP100 **£4.95**
- Spare RIBBON for GP250 **£5.95**

GP-700 Colour Printer Screen-dump routine in ROM FOR BBC Micro **£12**



Epson RX80

100 CPS, 9 x 9 matrix, dot addressable graphics, condensed and double width printing. Normal, Italic and Elite Graphics. Tractor feed, 10" max width, bi-directional, logic seeking. Centronics Interface standard.

ONLY £239 (£7 carr.)

RX80 F/T PRINTER

As above but has both Friction and Tractor Feed. **£269**

Epson FX80 Printer

160 CPS, 11 x 9 matrix, proportional spacing, superscripts, subscripts, dot addressable graphics. Normal, Italic and Elite characters. Up to 256 user definable characters. Down loadable character set. Condensed and double width printing. Full proportional spacing. Four user defined margin positions. Tractor and Friction feed. 10" maximum width Bi-directional, logic seeking Centronics interface standard.

ONLY £369 (£7 carr.)

	Ribbons	Dust Covers
MX80FT	£4.75	£4.50
MX100	£10.00	£5.25
FX80	£4.75	£4.95
RX80	£4.75	£4.50

PRINTER INTERFACE BUFFER

When your system tries to serve you well but its efforts are frustrated by slow printers delaying from returning to more productive tasks then this is where our Printer Buffer Interface comes to your rescue. Available in 16K or 48K memory sizes. Simply connect the integral cables to your Micro and the Printer and switch on. The free standing compact unit (130x 135x40mm) is supplied complete with interface cables, a power supply and a comprehensive manual.

Price: (16K) **£120**
Price: (48K) **£149**

BROTHER HR-15 DAISY-WHEEL PRINTER

An exceptionally high quality daisy wheel printer at the price of a dot matrix printer. 18CPS; bi-directional, 3K of buffer; has clear buffer facility, carriage skip movement, proportional spacing; underlining; bold print and shadow print. Prints in two colours; super and subscript facility. Impact control facility to vary pressure on paper for making carbon copies. Has Centronics parallel or RS-232 interface. Connects directly to BBC Micro. A ribbon cassette plus a separate red ribbon. Optional extras: single sheet feeder takes up to 150 A4 sheets; a keyboard that transforms HR15 into a sophisticated electronics typewriter. Attractively finished in beige.

Special Introductory Offer **ONLY £375**

Single Sheet Feeder **£199**

SPECIAL ★ XMAS OFFER ★

Cumana CS100 Drive	£180	£165
Cumana CS400 Drive	£310	£275
Cumana CD800 Drive	£599	£530
Seiksha GP100A PRINTER.....	£170	£155
Seiksha GP250X PRINTER.....	£225	£199
Epson FX80 PRINTER.....	£369	£349

LISTING PAPER

8 1/2" or 9 1/4" Fanfold paper plain or ruled (1000 sheets) **£7** (£1.50p carr.)
15" Fanfold paper (1000 sheets) **£9** (£1.50p carr.)
Teleprinter Roll (econo paper) **£4** (£1.50p carr.)

PRINTER LEAD 36"

Ready made printer lead to interface BBC Micro to EPSON, SEIKOSHA, NEC, etc., Printers. **ONLY £10**
Special Extra long (60") Cable **£14**

Prices correct at the time of going to press.
MAIL ORDER AND RETAIL SHOP. TRADE AND EXPORT INQUIRIES WELCOME.
GOVERNMENT AND EDUCATIONAL ESTABLISHMENTS OFFICIAL ORDERS ACCEPTED.
CARRIAGE: Unless stated otherwise, please add 60p to all cash orders.
VAT: UK customers please add 15% VAT to the total cost incl. Carriage.
SHOP HOURS: 9.00am to 6.00pm. Monday to Saturday. (Ample Free Car Parking Spaces)
ACCESS ORDERS: Simply phone: Watford (0923) 50234. (24 Hours)

WATFORD ELECTRONICS

Dept. BBC, Cardiff Road, Watford, Herts, England.

Telephone: 0923 40588/37774. Telex: 8956095

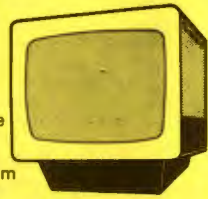
BBC Micro WORD-PROCESSING PACKAGE

A complete word processing package consisting of: BBC Model B, Zenith 12" Green Monitor, Twin 200K highly reliable (1 year warranty) Twin Cased Disc Drives with own power supply, the popular WORDWISE word processor, Watford's own highly sophisticated 62 File DFS interface fitted, the world renowned Brother HR15 Daisy Wheel Printer, Gemini's Beeplot & Beebcalc Spreadsheet Analysis Software discs, 10 blank diskettes, 500 sheets of fan-fold paper. Manuals and all the leads.

All you require is a mains power point to have it up and running (we even supply the 4 way mains trailing socket).
ONLY £1,350 (carr. £15)
(P.S. We will alter the package to suit your particular requirement. Call in for a demonstration.)

MONITORS

MICROVITEC 1431
14" Colour Monitor, RGB Input. (as used in BBC programmes) FREE Interface Lead. £215 (carr. £7)



- **KAGA RGB 12" Medium Resolution Colour £219** (Carr. £7)
- **KAGA RGB 12" High Resolution Colour £259** (carr. £7)
- **BNC Connecting Lead £3**
- **RGB Connecting Lead £5**
- **ZENITH 12" Green Monitor Hi-resolution £75** (£7 carr.)
- **MICROVITEC 1451 Hi-res 14" Monitor incl. lead £319**
- **NEW MICROVITEC 14" Colour Monitor/Composite Video £249**

DATA RECORDER & ACCESSORIES

Top quality Slimline, portable Data Recorder for computer use. Mains/Battery, operated with counter **£24.00**

DATA RECORDER CABLE
For our Data Recorder to BBC Micro **£2.50**

DATA CASSETTES Top grade C12 Data Cassettes in library cases. **40p**

STACK PACK The unique Cassettes drawer rack system including 10 off C12 Data Cassettes **£6**

BEEBLOTTER The Unique Graphic Tablet

Watford Electronics' BEEBLOTTER will work with 32K BBC Micro. Connects to Analogue port. The unique design makes it accurate and simple to use. Attractively finished. The comprehensive booklet supplied describes its use in detail and shows some of the possible applications.

The special features include:-

- Works in all graphics mode and any colour selectable.
- Commands printed on Tablet and On-screen instructions.
- Special routines enable pictures to be quickly loaded from tape.
- Works with all operating systems and ECONET. Tape and Disc versions available.
- Large drawing area (32cms x 23cms).
- Maps, Pictures and Diagrams produced quickly and easily.
- Transparent tablet enables maps and diagrams to be copied directly from books.
- Commands include line, circles and rectangle drawings, infilling, full editing and an easy to use copy and move feature.
- Screen dump routines included for Seikosha and EPSON printers.
- Routines are included to allow user to incorporate pictures in their own programs.
- Designed by a professional teacher with educational uses in mind.

ONLY (£3 carr.)

MISCELLANEOUS CONNECTORS

	Plugs	Sockets
RGB (6 pin DIN)	30p	45p
RS423 (5 pin Domino)	30p	40p
Cassette (7 pin DIN)	25p	65p
ECONET (5 pin DIN)	15p	25p
Paddles (15 pin 'D')	£1.10	£2.15
Disc to BBC Power Plug 6 pin	70p	-
Disc Drive Power Plug 4 pin	60p	-

READY-MADE LEADS for BBC

CASSETTE LEADS 7 pin DIN Plug to 5 pin DIN Plug + 1 Jack Plug	£2.00
to 3 pin DIN Plug + 1 Jack Plug	£2.00
to 7 pin DIN Plug	£2.50
to 3 Jack Plugs	£2.00
6 pin DIN to 6 pin DIN Plug (RGB)	£2.50
Monitor Lead, BNC to PHONO	£3.00
Disc Drive to BBC Micro Power Lead	
Single: £3.00 Dual £3.75	

★ SPECIAL XMAS OFFER ★

Microvitec 1431 Med res. 14" MONITOR	£225	£209
Microvitec 1451 Hi-res 14" MONITOR	£370	£319
KAGA I MONITOR		
RGB	£219	£205

13 ROM SOCKET BOARD

Simply plugs into one of the four ROM sockets currently available in BBC Micro. There are only 4 solder connections to be made. Full instructions are supplied.

Our 13 ROM SOCKETS BOARD enables the User to increase the Sideways ROM capacity the basic four sockets on the main board up to the full SIXTEEN capable of being supported by current operating systems. In addition the board is designed with the facility to hold up to 16K RAM, which when switched into operation is automatically selected by any WRITE signal to the Sideways ROM area. This gives the User the ability to write a utility or language and upon pressing break have the utility or language up and running (new ROM software can be developed and tested in situ.)

The Board gives the User, plenty of freedom to explore the possibilities of the new paged ROMs due in the coming months and offers them the chance to develop their own.

All essential lines are buffered and the Board meets or exceeds all timings for operation in the BBC Microcomputer. When fully populated, the ROM Board consumes less than half the recommended maximum current limit.

Supplied ready-built and tested complete with fitting instructions.

ONLY £29.95 (carr. £1)

+ NEW LAUNCH + Z80A WITH CP/M 2nd PROCESSOR BOARD Plus Double Density Interface for BBC MICRO

Yes it's here, our Z80A 4MHz 2nd processor board with 64K memory, 4K monitor EPROM, parallel printer interface, CP/M based, double density board will handle, 3½", 5¼" and 8" floppy disc drives and many more facilities. All neatly housed in a twin slimline disc drive case.

Call in at our stand at The BBC Micro User Show for a demonstration.

EPROM for the BBC MICRO & 13 ROM SOCKET BOARD

2764-250nS	1+	25+
	£4.20	£3.75
27128-250nS	£18	£13
27128-400nS	£16	£14
8271	£36	

CMOS RAM for the 13 ROM SOCKET Board

6116-150nS (2K)	£3.40
6264-150nS (8K)	£26.00

EPROM PROGRAMMER for BBC MICRO

At last! - the EPROM Programmer for BBC Micro Computer from WATFORD ELECTRONICS that will suit both your pocket and all your requirements. Programs all popular types of EPROMS from 2K bytes up to 16K bytes - 2716 - 2516 - 2532 - 2564 - 2764 - 27128.

This extremely powerful system is designed for your needs of TODAY & TOMORROW! - BBC Basic programs can be copied into EPROM and subsequently re-loaded faster than from a disc! Suitable for both hobbyist and professional users!

Just look at these features:

- **COMPLETELY SELF CONTAINED** - Housed in its own sturdy case - Uses its own power supply - connects directly to the 1MHz Bus - Simple and Safe!
- **FULL SOFTWARE SUPPORT** - Comes complete with simple to use fully machine code ROM based software and easy to understand manual. Facilities include Verification, Reading, Virgin Testing, Writing, Editing, Saving, Loading and more! NOTE!! - This software does not simply comprise hastily prepared routines to get you going, but is a professional, purpose designed applications package.
- **ACORN BUS COMPATIBLE** - Use of the 1MHz connection complies with all Acorn addressing recommendations - That means you can still add-on such things as the TELETEXT, IEEE 488 TUBE and PRESTEL Adaptors without having to disconnect everything.
- Allows more than one program to reside in an EPROM using the ROM Filing System.

ONLY £89 incl. Manual (£3 carr.)

BEEBMON

A ROM based machine code Monitor for BBC Micro. It enables machine code programs to be debugged and altered easily and quickly. Being a ROM, its commands are always readily available and occupy no user memory. Appears to take no base page and only one page of relocatable workspace (256 bytes) and no more anywhere in RAM. Beebmon can do more than any other machine code monitors currently on the market. The special features include facilities like: TABULATE, MODIFY, FILL, COPY, COMPARE, SEARCH (HEX & ASCII) CHECKSUM, DISASSEMBLE, RE-LOCATE and by Emulating the 6502 processor, SINGLE STEP, BREAK POINTS ON READ/WRITE/EXECUTE OF LOCATION also BREAK POINTS ON A, X & Y REGISTERS are provided. HAS WINDOWS INTO MEMORY & TEST WINDOWS. All this and more for only: **£25**

BBC LIGHT PEN KIT

All parts available as per Acorn User's 'SHINE A LIGHT' Light Pen article.

Kit Price: **£8.95**

BBC LIGHT PEN

A ready-made Light Pen for BBC Micro. Enables you to produce drawings on your own TV/MONITOR screen. Supplied complete with Software Cassette and instructions.

ONLY: **£17**

WATFORD ELECTRONICS

Continued →

★ THE ULTIMATE ★ BBC MICRO DFS

by Watford Electronics

High acclaimed at the Acorn User Show. What do the independent press say?

Good value for money - *Beebug Aug. '83*
A very worthwhile package - *The Micro User*
You'll be buying a very powerful package - *Personal Computer News*
Superior DFS; Excellent disc sector editor - *Computer Answers*

Without a doubt, the most sophisticated DFS Software yet written for BBC Micro Computer. This powerful new DFS is fully compatible with ACORN DFS yet has much increased power due to additions, carefully designed to make life easier in normal use. It consists of over 14K of efficiently written machine code. It is entirely self contained and so does not require a utilities disc to function.

The system can either use the ACORN standard 31 files per disc side or DOUBLE THE CAPACITY to 62 files. The size is selected at formatting time. Copying between discs with different catalogue sizes works perfectly normally.

● A FORMATTING PROGRAM is built in, permitting formatting to 35,40,80 track formats with either 31 or 62 files. Since the formatter is built in to the DFS it can be used without affecting whatever program you are using.

● A DISC VERIFIER is also built in. This checks the internal checksums on each sector to identify any corrupted data. This is extremely useful when saving valuable data as it shows faulty discs quickly and easily. Again it does not affect the program you are using.

● A built in DISC SECTOR EDITOR gives a screen window onto the disc enabling detailed editing of any byte on the disc. This is very useful for recovering accidentally deleted files and can save weeks of work.

● A double step mode allows the user of 80 TRACK DRIVES TO READ 40 TRACK DISCS. This mode is software selected for each drive individually, thus allowing a 40 track disc to be copied onto an 80 track one very easily. THIS ELIMINATES THE NEED FOR EXPENSIVE SWITCHABLE DRIVES.

● A WORKFILE function sets the name to be used when the null filename is issued. This allows a program to be edited and repeatedly saved having only typed its name once.

● When using LOAD, CHAIN, etc. it is possible to specify an ambiguous filename. This will result in the first file whose name matches the specification being used. This saves typing the end of a filename that you know is uniquely identified by its first few characters.

● Two commands exist to simplify the transfer of programs from TAPE TO DISC. These load the file to &1100, switch off the disc system and then move the file to its correct load address; thus saving a lot of complicated programming. This command can be used to load files up to 27K75 long.

● An advanced COPY command is included which will prompt the user, requesting whether to copy each file.

● RENAME has been extended to allow the use of ambiguous filenames. This allows you to change BERT1, BERT2, BERT3 to FRED1, FRED2, FRED3 with only one command.

● OPENOUT has been improved to give you fewer annoying "Can't extend" errors, as it automatically picks the biggest space on the disc in which to put a file. A SPACE command lets you know how much space *COMPACT could create before you waste time doing it.

● 2K of RAM can be reclaimed from the DFS by setting "PAGE" to &1100.

Now with extra features:
● The powerful library system has been extended so that libraries now work on all accesses not only *RUN. This allows you to have a utility directory with all your commonly used programs without muddling in your current workfiles. Very useful for BCPL User.
● Programs can now reside lower in memory by reclaiming some of the DFS' workspaces, indeed PAGE can be taken as low as £1100 under most circumstances.
● To make DFS easy to use, wild cards ("*") have been made vastly powerful, e.g. *INFO

A gives information on all files in the current directory which have an "A" anywhere at all in their filename.

● Comprehensive and clearly written Manual (available separately) gives the user a complete package deal.

● Fully compatible with BBC TELETEXT and TORCH Systems

DFS ROM only _____ £39

Complete Disc Interface including our highly sophisticated DFS ROM and fitting instructions _____ £85

Comprehensive and clearly written DFS MANUAL. (P.S. This manual will only be sold to those who purchase our DFS.) _____ £7.50 (no VAT)

P.S. We will exchange your existing ACORN DFS or AMCOM (PACE) DFS for the highly superior Watford's DFS ROM for _____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

_____ £35

GEMINI'S BUSINESS SOFTWARE

Written by Professionals.

Cashbook Accounts	£52
Final Accounts	£52
Invoices & Statements	£17.25
Commercial Accounts	£17.25
Mailing List	£17.25
Database	£17.25
Stock Control	£17.25
Home Accounts	£17.25
Beebcalc Spreadsheet Analysis	£17.25
Beebplot	£17.25

N.B. All the above Gemini software is on tape. For Disc Based (40/80 track) please add £3.

BOOKS (No VAT on Books)

30 Programs - BBC Micro	£4.95
30 Hour BASIC (BBC Micro)	£6.00
36 Challenging Games for BBC Micro	£5.95
100 Programs for BBC Micro	£6.95
Cassette version of above	£1.10
6502 Application Book	£10.25
6502 Assembly Lang. Programming	£12.50
6502 Assembly Lang. Subroutines	£11.80
6502 Software Design	£10.50
A young persons guide to BBC Basic	£4.50
ACORN ATOM Magic Book	£5.50
Advance User Guide for BBC	£13.50
Advanced 6502 Interfacing	£10.95
Advanced 6502 Programming	£10.50
Assembly Lang. Programming for BBC	£8.95
Advanced Programming Techniques for the BBC Micro	£7.95
BBC Basic	£7.95
Assembly Lang. Prog. on BBC Micro	£7.40
BBC Forth	£7.50
BBC Lisp	£7.50
BBC Micro An Expert Guide	£6.95
Easyprogramming for BBC Micro	£5.95
BBC Micro Graphics and Sound	£6.95
BBC Micro ROM PAGING System Explained	£2.95
BBC Micro Revealed	£7.95
BBC Micro Instant Machine Code including Software Cassette	£34.00
Creating Adventure Programs on BBC Micros	£6.95
Creative Graphics Cassette (Acornsoft). Has 36 graphics programs	£8.95
Creative Graphics on BBC Micro	£7.50
Complete Programmer for BBC	£5.95
Discover BBC Machine Code	£6.95
Discover FORTH - Osborne	£11.25
Easy Prog. for BBC Micro	£6.50
35 Educational Programs for BBC Micro	£6.95
Further Prog. for BBC Micro	£6.90
FORTH Programming (Sams)	£12.50
Functional Forth for the BBC Micro	£5.95
Games on your BBC Micro	£2.95
Games BBC Computer can Play	£6.95
Getting Acquainted/Acorn ATOM	£7.95
Graphs & Charts on BBC Micro	£7.50
Intro to Micro Beginners Book (3 Ed.)	£9.90
Introducing the BBC Micro	£5.95
LISP	£9.25
Logo Programming	£8.95
Micros in the Classroom	£4.90
Practical Prog. for BBC & ATOM	£5.95
Programming the 6502	£10.75
Programming the BBC Micro	£6.95
PASCAL	£9.25
Mastering VISICALC (Sybex)	£11.95
Structured Prog. with BBC BASIC	£9.50
The BBC Micro Book, BASIC, SOUND & GRAPHICS	£7.40
BBC Micro Assembly Lang. Prog.	£7.95
BBC Micro Disc Companion	£7.95
BBC Micro in Education	£6.50
Basic Programming on BBC Micro	£5.95
Graphic Art for BBC Computer	£5.95
Graphs and Charts (Cassette)	£8.95
Graphics on BBC Micro	£6.95
Programming for Education on BBC Using Floppy Discs with BBC Micro	