

Masterpieces



**BBC Compatible Disk Drives,
Winchesters & Tape Streamers**

With the introduction of the BBC Master Series range comes an age of new sophistication in computer technology. For the educational environment, the business environment, as well as the industrial environment.

Isn't it reasonable, therefore, to have mass storage and back-up media which is equally sophisticated in design and reliability?

At Akhter Group PLC we have surpassed this requirement, clearly demonstrating our commitment to 100% BBC compatible storage media designed for a wide variety of uses.

We are a Company at the forefront of technology, and we meet the most challenging of changes this business can demand. Therefore, to compliment the new generation of Acorn micros, Akhter Group PLC has been quietly applying its technical resources and expertise to continue leading the way.

The results have produced sheer masterpieces.
ARCHIVE * NUCLEUS 20 * NUCLEUS 40

A new generation of mass storage and back-up media from UFD, the very first of their kind in the marketplace. Most important of all, these units are compatible not only with the new Master Series, but across the entire range of Acorn BBC Micros.

As for our after-sales support, you need only to ask. Our experience and resources will be at your disposal.



Disk Drives, Winchesters & Tape Streamers
To Compliment The BBC Range Of Micros

Technical Specifications

TECHNICAL DATA	MODEL No.												
	MD	802DM	200A	200B	402C	402E	400A	400B	802C	802E	400F	802F	400G
Number of Drives	2	1	1	2	2	1	1	2	2	1	2	1	2
Drive Size (inches)	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	3.5	3.5	3.5	3.5
Memory Capacity (Unformatted)	1.0M	500K	500K	500K	500K	1.0M	1.0M	1.0M	1.0M	1.0M	1.0M	1.0M	1.0M
Diskette - Recording Surfaces	2	2	2	2	2	2	2	2	2	2	2	2	2
No. of Magnetic Head	2	2	2	2	2	2	2	2	2	2	2	2	2
MFM Recording = Double Density	*	*	*	*	*	*	*	*	*	*	*	*	*
FM Recording = Single Density	*	*	*	*	*	*	*	*	*	*	*	*	*
Track Density (TPI)	96	48	48	48	48	96	96	96	96	135	135	135	135
40/80 Track Switch Fitted	Yes	No	No	No	No	Yes	Yes	Yes	Yes	No	No	No	No
Access Time: Track/Track (ms)	3	6	6	6	6	3	3	3	3	6	6	6	6
Power Supply:	12V DC $\pm 5\%$ 5V DC $\pm 5\%$	0.5A (TYP), 1.0A (MAX) 0.5A (TYP), 0.7A (MAX)				0.23A (TYP); 0.5A (MAX) 0.23A (TYP), 0.4A (MAX)							
PSU Fitted (Yes/No)	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	No	Yes	Yes
Type of Case	M	P	M	M	M	P = Plastic, M = Metal				M	M	M	M
Type of Configuration	MS	SO	SO	DV	DV	SO	SO	DV	DV	DV	DV	DV	DV
		MS = Monitor Stand, SO = Single Only, DV = Dual Vertical											
Drive Mechanism	Servo Controlled Precision Drive - No Cheap Belt Driven Mechanisms												

The Company reserves the right to make any variation in design or construction to the equipment described.

Other data available on request



Introducing

ARCHIVE NUCLEUS 20 NUCLEUS 40

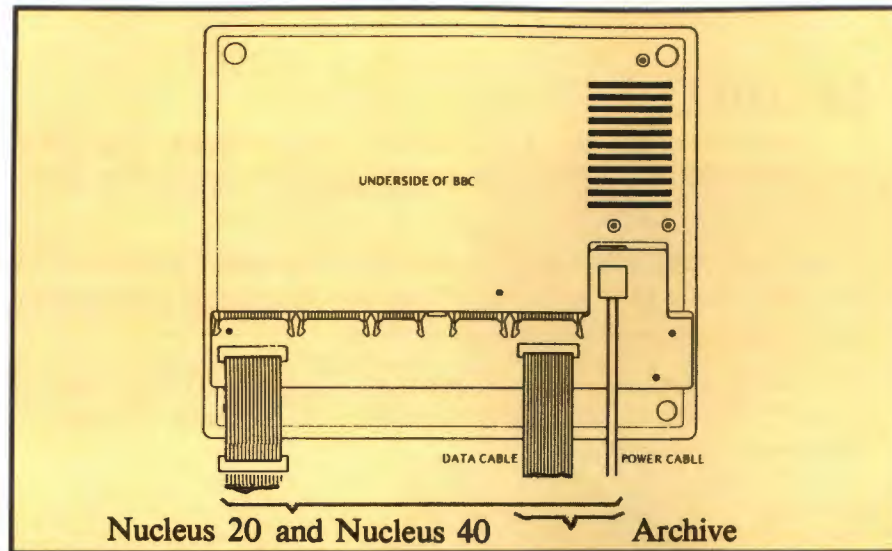
Together for the first time, and first in the marketplace.

A powerful combination of Winchester mass storage, tape back-up for security, and a 40/80 track switchable disk drive using the ADFS to offload data onto hard disk.

All neatly packaged in one unit, your BBC sits underneath and your monitor sits on top. Supplied with an integral PSU and all necessary connections so that you can plug it directly into the computer and the mains.



The New Generation Of Mass Storage & Back-Up Media



Features

- Easy to install.
- Comprehensive manual provided.
- Menu-driven formatting and initialisation, no 'debugging' required.
- Fully supported menu-driven software to give image and file back-up/restore facilities.
- Uses tapes, not audio cassettes.
- Internal power supply unit overcomes risk of overloading computer power supply.
- 24 months Gold Warranty.

ARCHIVE

A combination of 10MB tape streamer and 1MB 40/80 track switchable floppy disk drive built into the horizontal monitor stand case with independent PSU.

Designed for users already in possession of Winchester mass storage, requiring tape back-up for security copies. Archive plugs directly into the floppy drive connector, leaving the 1MHz Bus completely free.

NUCLEUS 20

A combination of 20MB Winchester, 10MB tape streamer and 1MB 40/80 track switchable floppy disk drive built into the horizontal monitor stand case with independent PSU.

Designed for users requiring mass storage facilities, and a means to make back-up copies for security. Nucleus 20 and Nucleus 40 plug into the floppy drive and 1MHz Bus connectors. However, the 1MHz Bus connection remains totally accessible.

NUCLEUS 40

A combination of 40MB Winchester, 10MB tape streamer and 1MB 40/80 track switchable floppy disk drive built into the horizontal monitor stand case with independent PSU.



Our Popular MD802DM Now In Master Series Version

MD802DM

A leader amongst the UFD drive configurations, the MD802DM (originally MD802D) is a version designed to accept the BBC Master Series micros.

Its package design as a single unit, with an integral PSU and all necessary connections are now so popular that it set the standard for modelling our new generation of mass storage devices.

The drives used in this configuration, like all UFD drives, are high capacity, double-sided, precision drives with dynamic clamping and very low power consumption.



Features

- Dual 5.25" drives.
- Capacity 800K each, double-sided.
- 40/80 track switchable.
- Horizontally mounted in a metal monitor stand (M = Master Version).
- Easy to connect and install.
- A flexible menu-driven program.
- Very comprehensive utility/format disk.
- Well presented, up-to-date and informative manual supplied.
- 24 months Gold Warranty.

5.25" Winchester 20MB and 40MB

HD2000

A 20MB Winchester built into a vertical dual case (MD802E), complete with PSU

Offload data into hard disk using ADFS

Includes the Winchester controller card and BBC host adaptor card



HD4000

A 40MB Winchester built into a vertical dual case (MD802E), complete with PSU

Offload data onto hard disk using ADFS

Includes the Winchester controller card and BBC host adaptor card

Single 5.25" Disk Drives 200K and 400K

MD200A

5.25" drive without PSU

Single 200K, double-sided 40 track drive mounted in a robust plastic moulded case



MD200B

5.25" drive with PSU

Single 200K, double-sided 40 track drive mounted in a strong metal case



MD400A

5.25" drive without PSU

Single 400K, double-sided 40/80 track drive mounted in a robust plastic moulded case



MD400B

5.25" drive with PSU

Single 400K, double-sided 40/80 track drive mounted in a strong metal case



Dual 5.25" Disk Drives 200K and 400K



MD402C 5.25" drives without PSU

Dual 200K, double-sided 40 track drives
vertically stacked in a strong metal case

MD802C 5.25" drives without PSU

Dual 400K, double-sided 40/80 track drives
vertically stacked in a strong metal case



MD402E 5.25" drives with PSU

Dual 200K, double-sided 40 track drives
vertically stacked in a strong metal case
with built in switch mode power supply

MD802E 5.25" drives with PSU

Dual 400K, double-sided 40/80 track drives
vertically stacked in a strong metal case
with built in switch mode power supply

Single and Dual 3.5" 400K Disk Drives

MD400F

3.5" drive without PSU

Single 400K, double-sided drive
supplied in a vertical stacking
dual case with blanking plate to
allow easy upgrade to dual drives



MD802F

3.5" drive without PSU

Dual 400K, double-sided drive
vertically stacked in a metal case



MD400G

3.5" drive with PSU

Single 400K, double-sided drive
supplied in a vertical stacking
dual case with blanking plate to
allow easy upgrade to dual drives
with built in PSU



MD802G

3.5" drive with PSU

Dual 400K, double-sided drive
vertically stacked in a metal case
with built in PSU



GROUP PROFILE

Akhter Group PLC was founded in mid-1979 with the aim of providing *affordable computer solutions* — this aim continues to be our corner stone, and is fundamental to our success.

Since the Company was established, it has grown to become a manufacturer of specific computer products and one of the leading distributors of computer systems and software, providing solutions for all forms of personal, business and educational requirements. In addition, the Company is a recognised force in O.E.M. and retail sales because of its highly competitive pricing policy.

The success of **Akhter Group PLC** is no accident, but the culmination of many years of dedicated service in providing sensible answers to very specific problems. Our large customer base, which includes individuals wanting computers for personal use, businessmen with very particular computer applications, and educational establishments with widely differing needs, continues to grow because of this dedication. In order to meet their varying levels of demand, we adopt and maintain a personal relationship with all our customers throughout the course of computer sales — from analysis of their computer requirements, through installation and commissioning, training and applications support, and the essential after-sales service.

Our total commitment to quality and service has been recognised by many manufacturers of computer hardware, software and peripherals. Most of them are market leaders in their fields, and we are proud to have been rewarded with their distributorships. As a result, we are able to offer a wide range of product configurations — from simple systems to multi-user installations — to satisfy your exact requirements.

The substantial rate of growth enjoyed by the Company has necessitated a change of premises approximately every two years. Currently, it occupies some 30,000 sq. ft. housing the administrative, manufacturing and warehousing facilities under one roof. This Head Office, main distribution and manufacturing centre is located in Harlow, easily accessible from M11 and other major trunk routes.

CUSTOMER SUPPORT

Planning and Installation

We have always recognised the need for good support — through the planning phase, to careful installation, user training and fast reliable maintenance. Thus, our involvement begins immediately a customer places an order. It is in our interest to kit our customers with the right products for their specific application and then to train them appropriately.

Training

User training is as important to us as it is to you. We consider that training is an essential part of a good installation. Therefore, we offer training courses (tailored to suit individual requirements) which we can run on-site or at our own premises. Since training needs differ greatly between installations, individual considerations are made at the time of planning.

Software Support

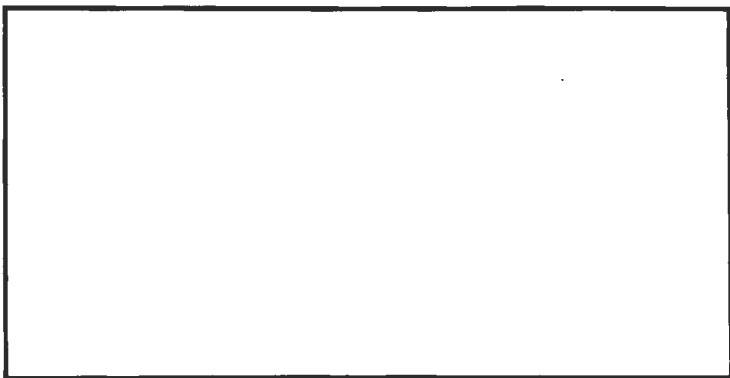
Over the years, we have provided software support in three main areas — choice with the right type of software, telephone help and technical advice. In the case of our own software, we also provide regular software enhancements. Recognised software for personal computers, and software specific to computers we distribute is equally supported by reference to the manufacturer.

Hardware Support

We have our own qualified engineers who can provide reliable technical advice on any hardware faults that may develop. But, in order to supplement this excellent maintenance service we also make appropriate reference to original equipment manufacturers in order to minimise 'down-time'. In most cases, problems are associated with incorrect operation, but those which arise as a result of equipment malfunction can be quickly dealt with by our Servicing Department.

Future Growth

When your computer requirement demands growth we would be only too pleased to satisfy the need. So that you may continue to use our services with confidence, we provide total support that you can rely on — now and into the future.



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