

#### CANON/SANYO DISC DRIVE SALES PRICE LIST

THE CANON MDD RANGE OF 54" SLIM FLOPPY DISC DRIVES.

#### DRIVE MODEL NO:

- MDD 110: 40 track, single-sided, CAPACITY 250K, or 100K on BBC Micro.
- MDD 6108: 40 track, double-sided, CAPACITY 500K or 200K on BBC Micro. This is the belt driven version of the MDD 210, being sold at an exceptional price. Alpha Disc's normal warranty terms apply.
- MDD 210: 40 track, double-sided, CAPACITY 500K, or 200K on BBC Micro.
- MDD 220: 80 track, double-sided CAPACITY 1Mb, or 400K on BBC Micro. NB: This drive is 40/80 track switching, with 2-colour LED to show mode selected.
- MDD 221: 80 track, double-sided, CAPACITY 1Mb, or 400K on BBC Micro. This is Canon's latest product. A super-slim drive only 33.5 mm in height (approx 1/3 of standard). This drive also features a 2-colour mode LED..
- SD596D: The Sanyo disc drive is our latest acquisition in quality
  (SANYO) Japanese products. This is a "half-height" unit of
  standard dimensions. 80 track,double-sided, 40/80
  switching, 400K.

### ALL INCLUSIVE DISC DRIVE PRICE LIST

			SANYO			
MODEL	110	6108	210	220	221	596D
Single density Formatted Capacity per drive on BBC Micro:	100K	200K	200K	400K	400K	400K
Single drive & case:	£89	£75	£99	£139	£199	£149
*Single drive & case/PSU:	£114	-	£124	£174	£229	
Dual drive & case/PSU:	£214	_	£234	£299	£409	£309

\*Single drive in dual upgradable case add £20.

## Canon MDD <sup>3</sup>/<sub>3</sub> Height 5<sup>1</sup>/<sub>4</sub>" Mini Floppy Disc Drives

Lower Profile. Higher Performance & More Data Capacity

Canon's new MDD floppy disc drive is only two-thirds the height of standard units, but provides even higher levels of performance. It is an ideal drive for small business microcomputers and word processing systems.

The MDD range of floppy disc drives includes units giving capacities from 250K unformatted (MDD 110) to one megabyte of unformatted data (MDD 220). They support both MFM and FM recording formats and incorporate the superior reliability, maximum performance and extended service life inherent in all Canon products. Significant design features include.

Precision Positioning Mechanism The read/write heads are accurately positioned by a steel beit, fitted with the pulley of a high-precision stepping motor. The mechanism is designed to compensate automatically for diskette expansion due to temperature, greatly reducing the possibility of data error. Protects Against Accidental Erasure An onboard jumper is provided to select the protect of the diskette from unintentional erasure. The diskette may be protected if the write protect notch is closed or open. For even more data integrity, a voltage-sensing circuit disables the write logic when the power is low, thus preventing spurious writes when the power is switched on or off.

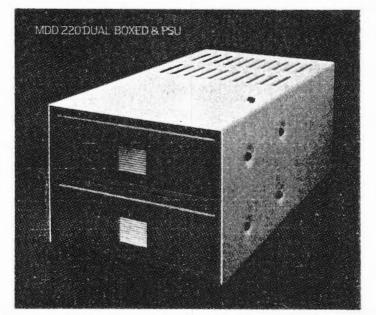
#### Handles Discs With Care

The MDD features an independent headload solenoid and a special soft-pressure pad for more delicate handling of your valuable diskettes.

#### **Disc Centering Mechanism**

As soon as diskettes are inserted into the drive, they are rotated to assure proper seat and center alignment.

Improved Read/Write Heads The MDD heads are tunnel erase ceramic type, which form non-recorded ranges between each track to avoid crosstalk, and increase interchangeability.



The structure of the head is designed to minimize diskette contact wear. Heads

> 10.000 power-on hours 30 minutes

> > 1 per 10<sup>-+</sup> bits read 1 per 10<sup>-12</sup> 1 per 10<sup>-6</sup> seeks

5 years Complying with U.L.

RELIABILITY

MTBE

57.5 mm

196.5 mm

146 mm

1.3 kg

111111111

MTTR: Error Rates

Soft Errors:

Hard Errors:

Seek Errors

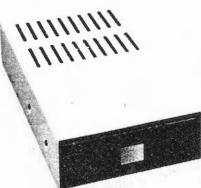
Safety Stan

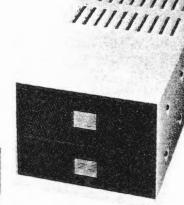
nt Life

are also steel-shielded for greater accuracy and more accurate performance.

# Specification Summary

Unformated Capacit	TY .			Height:
	Mode!	Model	Model	Width:
	MDD 110	MDD 210	MDD 220	Depth:
No of Heads	1	2 .	2	Weight:
Tracks per Head	40	40	80	1
K Bytes per Disc (FM)	125	250	500	
(MFM)	250	500	1000	1
Bytes per Track (FM)	3.125	3,125	3,125	
(MFM)	6.250	6.250	6.250	1





MDD 110 SINGLE BOXED & PSU

Specifications subject to change without notice

MDD 210 DUAL BOXED & PSU

#### (MFM) 250K bits per second (FM) 125 bits per second Access Time Track-to-track 3 milliseconds Setting Time 15 milliseconds Average: Head Load Time: milliseconds 25 m seconds Drive M otor Start Tin One second 300 rpm indie Speed: cording Density (MFM) 5922 bpi (FM) 2961 cpi 48 tpi ock Density \*220 (96 tpi/48 tp (MFM /FM ng Met Doorlook Hardware or softwa e selectable (Opponal) YSICAL nal Temperature 5° to 45°C (40° to 122°F) -40° to 62°C (-40° to 144°F) -22° to 55°C (-8° to 117°F) port Tempe torage Temperate ve Humidity: 20% to 80% (Non-condensing) than 29°C (84°F) Wet build term + 12V DC ± 5%. 1.8A max., 0.8A typ. + 5V DC ± 5% 1.0A max., 0.8A typ. 14 watts operating, 4 watts standby, 7.5 watts motor on and deselected er Diesination

STANDARD INTERFACE COMPATIBLE WITH: BBC® MICRO + TRS 80® + VIDEO GENEI® + NASCOM® + + + +

FUNCTIONAL

Advanced Direct Drive Motor The DC spindle motor, utilizing a direct drive brushless motor, is rated for a long service life of more than 10,000 hours. Data accuracy is enhanced, due to the absence of motor-generated electrical noise.

Two-Colour LED Motion Check Indicator (MDD 220 only) The LED on the front panel tells the user when the drive is in motion. The signals are lit in red for 96 tpl track pitch and green for 48 tpl. Signal Names include: (1) In Use. (2) Select, and (3) Head Load. The 48/96 tpi double step generator is hardware or software selectable.

