

NAMAL DISK DRIVES

1 Single Disk Drive

3 Dual Disk Drives (vertical)

2 Single Disk Drive with PSU

4 Dual Disk Drives (horizontal)



- 5¼" floppy disk drives
- Half the height of conventional drives
- Choice of capacity from 125 KBytes to 1 MByte
- New TEAC LSIs reduce power consumption, increase reliability
- Brushless DC direct drive motor
- High-speed data access

Cambridge Microcomputer Centre, 153-54 East Road, Cambridge CB1 1DD

NAMAL DISK DRIVES

The following models of the Namal Disk Drives have been released:

1. **Single Disk Drive**
available with TEAC FD55A, FD55E or FD55F
2. **Single Disk Drive with Power Supply Unit**
available with TEAC FD55A, FD55E or FD55F
3. **Dual Disk Drives (arranged vertically)**
available with TEAC FD55A, FD55E or FD55F
4. **Dual Disk Drives (arranged horizontally)**
available with TEAC FD55A, FD55E or FD55F

SPECIFICATIONS

Recording Method:

FM (single density), MFM (double density)

Motor Starting Time: 400 ms

Index: 1

MTBF: more than 10,000 hours

Error Rates

Soft Errors: 1 per 10^9 bits (up to 2 retries)

Hard Errors: 1 per 10^{12} bits

Seek Errors: 1 per 10^6 seeks

Temperature

Operating: 4° — 46°C

Transportation: -40° — 65°C

Storage: -22° — 60°

Relative Humidity

Operating: 20 — 80% (noncondensing)

Max. Wet Bulb Temperature: 29°C

Transportation: 5 — 95% (noncondensing)

Max. Wet Bulb Temperature: 45°C

Storage: 10 — 90% (noncondensing)

Max. Wet Bulb Temperature: 40°C

Power Requirements:

DC + 12 V \pm 5% 0.25 A Typ., 0.9 A max.

DC + 5 V \pm % 0.38 A Typ., 0.6 A max.

Power Consumption

Operating: 4.9 W

Non-Operating: 1-6 W

Component Life: 5 years

Safety Standard: Complying with UL and CSA

| Dimensions | Weight |
|---|--------|
| Single Disk Drive 270mm × 52mm × 155mm | 2 kg |
| Single Disk Drive with PSU 245mm × 52mm × 155mm | 2.5 kg |
| Dual Disk Drives (vertical) 245mm × 92mm × 155mm | 5 kg |
| Dual Disk Drives (horizontal) 345mm × 52mm × 305mm | 5 kg |

| | | | FD-55A | | FD-55E | | FD-55F | | |
|--------------------------------------|--------------------------------------|------------|--------|--------|--------|---------------------------------|-------------------------------|---------------------------------|--|
| | | | FM | MFM | FM | MFM | FM | MFM | |
| Transfer Rate (K bits/sec) | | | 125 | 250 | 125 | 250 | 125 | 250 | |
| Capacity (K bytes) | Unformatted | Per Track | 3.125 | 6.25 | 3.125 | 6.25 | 3.125 | 6.25 | |
| | | Per Disk | 125 | 250 | 250 | 500 | 500 | 1,000 | |
| | Formatted (16 sectors/ track)* | Per Sector | 0.128 | 0.256 | 0.128 | 0.256 | 0.128 | 0.256 | |
| | | Per Track | 2.048 | 4.096 | 2.048 | 4.096 | 2.048 | 4.098 | |
| | | Per Disk | 81.92 | 163.84 | 163.84 | 327.68 | 327.68 | 655.36 | |
| Inside Track Recording Density (bpi) | | | 2768 | 5536 | 2788 | 5576 | 2961 | 5922 | |
| Inside Track Flux Density (frpi) | | | 5536 | | 5576 | | 5922 | | |
| Tracks/Disk | | | 40 | | 80 | | 160 | | |
| Track Density (tpi) | | | 48 | | 96 | | 96 | | |
| Track Radius (mm) | Outside | | 57.150 | | 57.150 | | side 0 : 57.150 1 : 55.033 | | |
| | Inside | | 36.513 | | 36.248 | | side 0 : 36.248 1 : 34.131 | | |
| Average Access Time (ms) | | | 93 | | 94 | | 94 | | |
| Track Access Time (ms) | | | 6 | | 3 | | 3 | | |
| Settling Time (ms) | | | | | 15 | | | | |
| Disk Rotational Speed (rpm) | | | 300 | | 300 | | 300 | | |
| | | | | | | can be switched to 40 tracks | | can be switched to 40 tracks | |

The above specifications are subject to change without prior notice.

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