

Drive Specification

1. Basic Specification

Disk Capacity	128MB	230MB	540MB	640MB	1300MB
Item					
Disk	90mm magneto-optical disc				
Format Address	00T 0S	00T 0S	00T 0S	00T 0S	00T 0S
T:Track S:Sector	- 9999T 24S	- 17939T 24S	- 42041T 24S	- 18479T 16S	- 36854T 16S
Number of Track	10000	17940	42042	18480	36855
Bytes per Sector	512B	512B	512B	2048B	2048B
Rotational Speed	4628rpm				3240rpm
Average Latency	6.5 ms				9.3ms
Seek time					
Average	140ms*1				
Full stroke	400ms				
Unloading Time	below 10sec				
Data Transfer Rate					
User Data transfer rate*2,3 (Theoretical value)	964KB/s	1157 - 1852KB/s	1928 - 3240KB/s	2314 - 3857KB/s	2592 - 4428KB/s
Read Error Rate	less than 10 ⁻¹² (after ECC, with standard disk)				
Burst Transfer Rate (Theoretical value)	Hi-Speed (USB2.0) : 480Mbps Full-Speed (USB1.1) : 12Mbps				
Host interface	USB2.0/1.1				
Buffer Memory Capacity	2MB				
Support for DOW	—	○	○	○	—

▼NOTE

Each specification value was measured with standard disk (see below table).

<Standard disk>

Mitsubishi chemical media	128MB media
SONY	230MB media (NON-DOW)
Maxell	540MB media (NON-DOW)
Mitsubishi chemical media	640MB media (NON-DOW)
SONY	1.3GB media

*1 Average seek time was measured between tracks below.

128MB	00T ~ 3333T
230MB	00T ~ 4973T
540MB	00T ~ 11518T
640MB	00T ~ 5045T
1.3GB	00T ~ 14512T

*2 This transfer rate is theoretical value, and it depends on file types in practical use.

*3 Write transfer rate should be 1/3 of read one, because reading, writing and verifying is necessary for data writing

2. Physical Specification

Item	Specification	Remarks
MTBF	over 160,000 hours $= \frac{\text{Total running time}}{\text{Total failer number}}$	<Conditions> 1) Running time : below 80H/month 2) Environment : R. T. (about 25°C) Failure number is number of drive required repair or replacement. And this is not included in the case of handling miss, usage out of specification and trouble except for failures of the drive.
Load/Unload	20,000 times	By our endurance test (R. T.)
Eject switch	20,000 times	
USB Connector (plug and unplug test)	5,000 times	
Endurance	5 years	Usage under our specific conditions
Dust Proof	less than class 5,000,000 over 5 years	By our accelerated test, calculated based on 80H/month × 60 months. However, media cleaning and lens cleaning can be necessary.