

Optical Disk Drives:

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This document describes the physical attributes of the listed optical disk drives. This document is intended for internal use only. Data was taken from optical disks manufacturers published specifications and the accuracy is not guaranteed. This document will be updated periodically; revision history is listed below.

REVISION DATE	DESCRIPTION
2-1-89	INITIAL RELEASE

**WORM Optical Disks**

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Model	LMSI LD 510	LMSI LD 1200	Maxtor RXT-800S	OPTIMEM 1000
Size (inches)	5.25	12	5.25	12
Formatted Cap. (MB)	654	2096	800	2000
Access time average (ms)	75	150	108	150
full stroke (ms)	150	330	324	250
Avg. latency (ms)	13.7	62.5	60	27
Rotation rate (RPM)	2,160	480	334-668	1122
Sustained read rate(KB/s)	600	250	---	480
Sustained write rate(KB/s)	600	250		480
Buffer Size (KB)	64	44	256	
Sector Size (bytes)	512	1024	2048	1024
Sectors per track	32	32	--	25
Track Format	SPIRAL	SPIRAL	SPIRAL	SPIRAL
Tracks/side	20,000	32,000		40,000
MTBF (hours)	15,000	12,000	30,000	10,000
AVG. Pwr. Consump. (watts)	15	250	30	785 BTU
Availability	NOW	NOW	NOW	NOW
Price (L=list/O=OEM)	\$2,470 (O)	\$8,000 (O)	\$2,665 (L)	
Media Price	----		\$199 (L)	
Media ISO std.	----			
Interface	SE SCSI	SE&DF SCSI	SE SCSI	SE SCSI
Direct read after write?	YES	YES	NO	NO
Power supply?	NO	YES	NO	YES

Model	OPTIMEM 2400 MASTER/SLAVE	OPTIMEM 4000 MASTER/SLAVE	OPTIMEM 5000 MASTER/SLAVE	HITACHI 301 SERIES
Size (inches)	12	12	12	12
Formatted Cap. (MB)	2400	3920	5000	2620
Access time average (ms)	150	150		200
full stroke (ms)				
Avg. latency (ms)	27	27		50
Rotation rate (RPM)	1122	1122		600
Sustained read rate(KB/s)		723		440
Sustained write rate(KB/s)		723		440
Buffer Size (KB)				2 tracks
Sector Size (bytes)	1024	1024		512
Sectors per track	25	40		62
Track Format	spiral	spiral		spiral
Tracks/side	47,000	48,333		41,300
MTBF (hours)	12,000			
AVG. Pwr. Consump.(watts)	230	530 btu		
Availability	NOW	2Q,89	1Q,90	now
Price (L=list/O=OEM)		\$17,950 m (L) \$15,800 s (L)		
Media Price				
Media ISO std.				
Interface	se scsi			scsi
Direct read after write?	no	no		no
Power supply?	yes	yes	yes	yes

Model	Fujitsu 2505	ISI 525WC	ISI 525GB	Panasonic LF-5000
Size (inches)	5.25	5.25	5.25	5.25
Formatted Cap. (MB)	600	230	1200	200
Access time				
single track (ms)	3	1	1	
average (ms)	100	18	18	
full stroke (ms)	200	150		
Avg. latency (ms)	17	16.5	16.5	34
Rotation rate (RPM)	1800	1800	1800	880
Sustained read rate(KB/s)	694	312	491	312
Sustained write rate(KB/s)		312	283	
Buffer Size (KB)			64	
Sector Size (bytes)	1024	256	1024	512
Sectors per track		32		23
Track Format	spiral	spiral	spiral	
Tracks/side	18,752	14,901		17,100
MTBF (hours)	20,000	15,000		20,000
Availability	now	now	now	now
Price (L=list/O=OEM)		\$1,070 (O)	\$5,988 (L)	\$2,595 (L)
Media Price		\$50		
Media ISO std.				
Interface	esdi/scsi	scsi	scsi	scsi
Direct read after write?	no	no	no	no
Power supply	+5,+12 vdc	+5, +12 vdc 30 watts		100-120 vac

Model	Pioneer DD-U5001	Ricoh RS-9200F	Toshiba WM-S500
Size (inches)	5.25	5.25	12
Formatted Cap. (MB)	654	800	4000
Access time single track (ms) average (ms) full stroke (ms)	60		150
Avg. latency (ms)	16.7		49
Rotation rate (RPM)	1800		615
Sustained read rate(KB/s)	740	312	500
Sustained write rate(KB/s)	740	312	
Buffer Size (KB)		256	32
Sector Size (bytes)	512	2,048	
Sectors per track	32		
Track Format	spiral	spiral	spiral
Tracks/side			
MTBF (hours)		20,000	
Availability	now	now	now
Price (L=list/O=OEM)	\$2,750 (L)		\$11,495 (L)
Media Price	\$180 (L)		
Media ISO std.			
Interface	scsi	scsi	scsi
Direct read after write?	no	no	no
Power supply	+5,+12 vdc	100/230 vac	included

**Erasable Optical Disks**

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Model	Cannon OM-500D (ESDI)	SCSI Controller for OM-500 OM-C10	Drive/SCSI Contrl/P.S. SMO-S501 SONY	Maxtor Tahiti I
Size (inches)	5.25		5.25	5.25
Formatted Cap. (MB)	256 @ side		297 @ side	256 @ side
Access time average (ms)	92		95	30
full stroke (ms)	130		185	
Avg. latency (ms)	10		12.5	
Rotation rate (RPM)	3,000		2,400	
Sustained read rate(Mb)	9.1	6.6	7.4	
Sustained write rate(Mb)	2.6	1.9		
Buffer Size (KB)		64	64	
Sector Size (bytes)	1,024		512	
Sectors per track	16		31	
Track Format	spiral		spiral	
MTBF (hours)	20,000			
AVG. Pwr. Consump.(watts)	18		45	
Availability	now		now	
Price (L=list/O=OEM)	\$6,000 (L)		\$5,250 (L)	\$2,500 (O)
Media Price	\$250		\$250	\$175 (O)
Media ISO std.	not format		yes	

Model	RICOH RO-5030E (OLYMPUS)		
Size (inches)	5.25		
Formatted Cap. (MB)	297 @ side		
Access time average (ms)	61		
full stroke (ms)			
Avg. latency (ms)			
Rotation rate (RPM)			
Sustained read rate(Mb)			
Sustained write rate(Mb)	.8		
Buffer Size (KB)			
Sector Size (bytes)			
Sectors per track			
Track Format			
MTBF (hours)			
AVG. Pwr. Consump.(watts)			
Availability	now		
Price (L=list/O=OEM)	\$3,769 (O)		
Media Price	\$225 (O)		
Media ISO std.	yes		
Interface	scsi		
Power supply?	no		