

# LK-MC688BP ATAPI Internal 8X Enhanced IDE Interface CD ROM Drive



- Enhanced IDE Interface with ATAPI support (Interface Card included)
- Kit Contents: Internal Drive, Acculogic SideCD Interface card, IDE Interface cable, Audio cable, Mounting screws, Manual & Handy Reference Guide
- 2 year limited warranty (see your dealer for details).

### Bonus Software Package 1

Pana-CD Handler for Windows application makes using every application easier. Launch applications with a single click of the CD-Handler Toolbar!

### Bonus Software Package 2

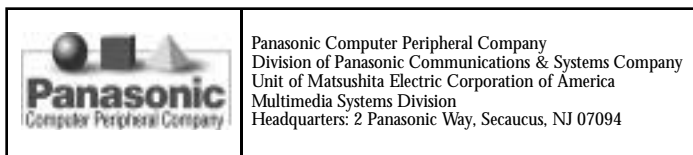
Pana-CDMagic Windows Application makes playing all multimedia files easy. Includes CD-i\*\*, Video-CD\*\*, VFW, CD-Audio, Photo-CD, QuickTime and Karaoke players.

### Bonus Software Package 3

Microsoft Video for Windows and Apple QuickTime for Windows are bundled with the drive! These system enablers will bring full motion video to your PC.

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O n l i n e   S p e c   S h e e t



w w w . p a n a s o n i c . c o m / a l i v e

## LK-MC688 Specifications

### Disc speed

Normal Velocity	200-530 rpm (Constant Linear Velocity)
Double Velocity	400-1060 rpm (Constant Linear Velocity)
Quad Velocity	800-2120 rpm (Constant Linear Velocity)
Data Capacity	656 MBytes (Mode1)/748 MBytes (Mode 2)

### Data Transfer Rate

1x Mode	150/171 KBytes/sec mode 1 / mode 2	
2x Mode	300/342KBytes/sec mode 1 / mode 2	
4x Mode	1200/1368 KBytes/sec mode 1 / mode 2	
From Buffer	11.1 Mbytes/sec (PIO Mode 3 without IORDY) 8.33 Mbytes/sec (Single word DMA Mode 2) 13.3 Mbytes/sec (Multi- word DMA Mode 1)	
Random Access Time	350 Msec***/250 Msec***/150 Msec*** (175 Msec seek time**)	
Fullstroke Access Time	1x Mode	540 Msec**
	2x Mode	440 Msec**
	8x Mode	310 Msec**
Buffer Size	128 KBytes	
MTBF	125,000 power on hours (Duty 20%)	
Error Rates	Mode 1	Less than 1 in 10 E12
	Mode 1	Less than 1 in 10 E12
	Form 1	Less than 1 in 10 E12
	Mode 2	Less than 1 in 10 E9
	CD-Audio	Less than 1 in 10 E9

### Audio Performance

Number of Channels	(2 Stereo)	
Sampling Frequency	44.1 kHz	
Frequency Response	(Headphone) 100 Hz-20 kHz 20 Hz-20 kHz (Line-Out)	
Signal to Noise Ratio	More than 83dB (Line Out)	
Distortion	Less than 0.1% (Line Out)	
Channel Separation	65dB (Line Out)	
Output Level	Line-Out	0.8 Vrms @ 47K Ohm (max)
	Headphone	0.6 Vrms @ 32K Ohm (max)

### General Characteristics

Mounting	Vertical or Horizontal	
DC Power 12 V	±10% 0.2 amp typical, 1.3 amp max.	
DC Power 5 V	±5% 0.4 amp typical, 1.3 amp max.	
Dimensions (WxHxD)	5.75"x1.63"x7.99"	
Weight	2.05 lbs	
Disk Diameter	Accepts 4.72" (120mm) and 3.15" (80mm) discs	
Disk Ejection	Auto (via host) or manual (front panel)	
Lens Cleaning	Automatic	
Volume	(headphone) Dual button electronic control	

Environmental Conditions	Operating	Non-operating
Temperature	41° - 112°F	22° - 149°F
Humidity	5% - 90% Relative Non-condensing	
Laser Pick Up Type	Semiconductor Laser	
Wave Length	790±25nm	
Divergence	0=53.5%	
Output power	0.14 mW	

Check to see the required Operating System is listed. \*\*Seek time is for head to seek to target track (does not include latency). \*\*\*Average Data read over the whole area from 00 minutes 02 sec. 00 block to 59 min. 58 sec. 74 block more than 2000 times including latency and layered error correction time. (Test Disk: MNSU-005) \*\*From 00 minutes 02 sec. 00 block to 59 min. 58 sec. 74 block including latency and layered error correction time. (Test Disk: MNSU-005) \*Requires MPEG Board (not included).