I LG **CD-RW/DVD-ROM Drive Owner's Manual**

To enjoy fully all the features and functions of your product, please read this owner's manual carefully and completely.



Englis





GCC-4480B

CAUTION : The laser used in the CD-RW/DVD-ROM drive can damage your eyes. Do not attempt to open the cover. To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel. Use of controls or performance of procedures other than those specified herein may result in hazardous radiation exposure.

;

Industry Canada requirement

rain or moisture

WARNING :

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

To reduce the risk of fire or electric shock, do not expose this appliance to

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

FCC COMPLIANCE STATEMENT

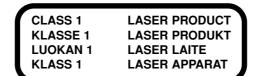
- Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an Authorized Service Center for help.
- FCC WARNING
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This CD-RW/DVD-ROM Drive is for use only with UL listed personal computers that have installation instructions detailing user-installation of card cage accessory.

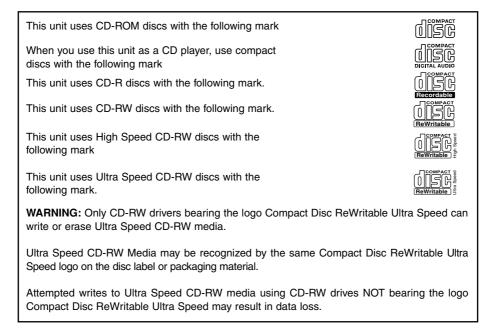
i

This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.

CAUTION - INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM.

VARNING-OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD STRÄLEN ÄR FARLIG.





ii

Contents

Introduction	Features2Important Precautions3System Environment4Location and Function of Controls5
Installation	Installing the Drive6 Device Drivers11
Operation	How to Use the Discs12
Appendix	Troubleshooting

Microsoft[®] and Windows[®] are trademarks registered in the United States and other countries by the Microsoft Corporation.

The company names and product names written in this manual are trademarks or registered trademarks of the respective companies.

Ò

	Introduction	
Thank you for purchasing this CD-RW/DVD- ROM Drive.	 Fectures Enhanced-IDE (ATAPI) interface. Power tray loading and ejection of disc. (The disc can also be ejected manually.) Combination CD-R/RW and DVD-ROM Drive functions into one drive. Supports UDF for easy writing to CD-RW discs. Supports Region playback control Phase II. Supports Windows 95, 98, 2000, ME & XP/NT4.0. Supports Mt. Rainier. Automatic buffer underrun error prevention technology-SuperLink 48X max Writing (CD-R), 24X max ReWriting (CD-RW), 16X max Reading (DVD-ROM), and 48X max Reading (CD-ROM)*. * Writing speed depends on capabilities of discs. As a result, for ultra speed write/rewrite, you should use media labelled Ultra Speed Write/ReWritable discs 	
Package Items	Item	Quantity
	- Internal CD-RW/DVD-ROM Drive	1
	- CD Recording Software	1
	- MPEG-2 Software(Power DVD)	1
	- E-IDE (ATAPI) cable	1
	- Audio Cable	1
	- Mounting Screws	4
	- Manual for CD-RW/DVD-ROM Drive	1
	- Quick Manual for CD Recording Software	1

2

	Introduction
	Important Precautions
	Follow these precautions when handling the drive or discs.
Precautions	 Please take notice that the manufacturer of this equipment does not offer any warranty against data loss due to inappropriate installation or handling, or direct or indirect damages. Please take notice that the manufacturer will bear no responsibility for direct or indirect damages caused by the use of this product or its malfunction. Please take notice that the manufacturer will bear no responsibility for direct or indirect damages the notice that the manufacturer will bear no responsibility for direct or indirect damages the notice that the manufacturer will bear no responsibility for direct or indirect damages the notice that the manufacturer will bear no responsibility for the notice that the manufacturer will bear no responsibility for direct or indirect damages the notice that the manufacturer will bear no responsibility for the notice that the manufacturer will be a not responsibility for direct or indirect damages take notice that the manufacturer will be a not responsibility for direct or indirect damages take notice that the manufacturer will be a not responsibility for direct or indirect damages take notice that the manufacturer will be a not responsibility for direct or indirect damages take notice that the manufacturer will be a not responsibility for direct or indirect damages.
	 Please take notice that the manufacturer will bear no responsibility for damage to data caused by this product. Please backup (copy) all important data as protection against data loss.
Installation	 Avoid placing the drive in a location subject to: high humidity high temperature excessive dust mechanical vibration direct sunlight We recommend using the drive in a horizontal or vertical position. Do not use it in tilted position.
Operation	 Don't move the drive suddenly from a cold place to a warm one or raise the room temperature suddenly. Condensation may occur, causing abnormal operation. Make sure to remove the disc before moving the drive. The disc may be damaged, causing data loss. Be careful to prevent foreign objects, such as liquids or metal, from entering the drive. In case a foreign object enters the drive, please consult the dealer where the drive was purchased. Don't interrupt the electric power while the drive is operating. When connecting two IDE devices to the Primary or Secondary connectors, make sure that the two devices are not configured as both Master, or both Slave. If they are both set the same, Windows may fail to run or recognize the drives. The total length of the IDE cable should be no more than 18 inches (about 45 cm).

Introduction

System Environment

Computer

This unit can be operated in the system environment explained here.

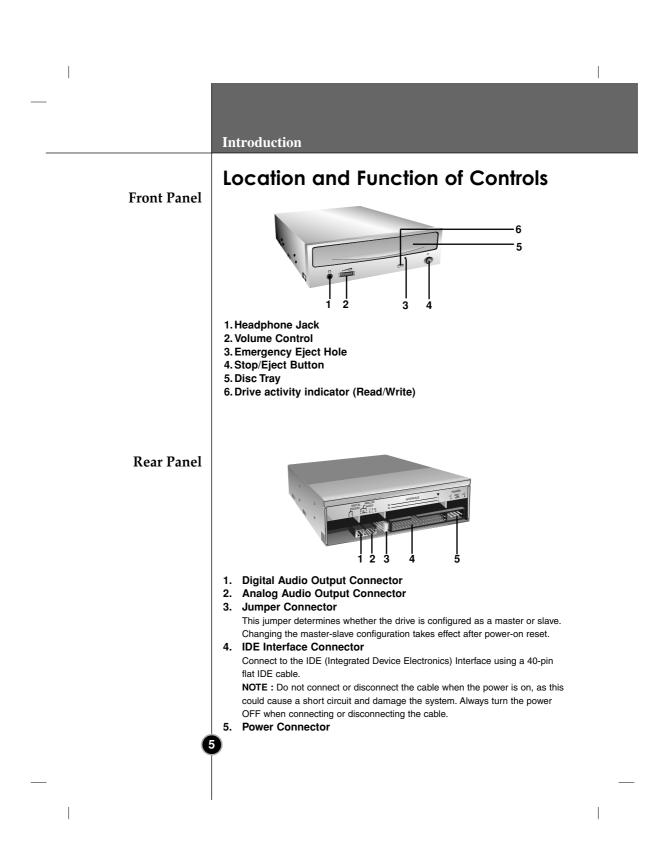
System CPU requirements		350MHz (or faster) Pentium (for high speed, 500MHz or faster recommended)	
	Memory	Windows 95/98 : 64MB or greater. Windows NT Workstation Ver. 4.0: 64MB or greater (128MB or over recommended) Windows 2000:64MB or greater(128MB or over recommended)	
Hard disk		75MB or more free space. (The free space needed for writing depends on the quantity of data.)	
Interface		Enhanced-IDE interface (as Primary Slave, Secondary Master or Slave)	
Drive bay		5.25-inch half-height bay required	
Power		+5V/+12V power socket required	
Software Required OS		Windows 95/98/2000/ME/XP, Windows NT Workstation Ver.4.0 or later*	
CD-R, CD-RW discs		 CD-R : LG, Ricoh, Mitsubishi Chemical, Verbatim, Taiyo Yuden, Mitsui Toatsu, TDK, Kodak, or SKC discs are recommended. CD-RW : Ricoh, Mitsubishi chemical, Verbatim, Imation, Sony discs are recommended. 	

- Occasionally the CD-R and CD-RW discs written by the CD-R/RW drive cannot be read by other CD drives*. These unreadable discs may need to be read using the CD-R/RW drive on which they were written.
- * The disc written using the CD-R/RW drive might not be readable by CD-ROMs other than Multi-read compatible (UDF compatible) CD-ROMs. Multiread compatible (UDF compatible) CD-ROMs are:
 - 1. CD-ROMs that can read low reflectance.
 - 2. CD-ROMs that support Packet Write.
- Please note: Certain software (i.e. particularly those including Video playback) may require a considerably increased specification PC to give acceptable results. While this CD-RW/DVD-ROM drive can read DVD-video discs, decoding them to display on your pc's monitor requires separate MPEG decoding that is done by separate hardware (either an MPEG decoder card or MPEG decoding done by your video card), or separate software that you install to do MPEG decoding. For further details, refer to the documentation that comes with MPEG software.

Software

4

Install the supplied CD Recording Software before using this unit.



Installation

Installing the Drive

Before

Installation

Removing the Computer Cover

Mounting the Drive

6

Before installing the drive, please note the following points.

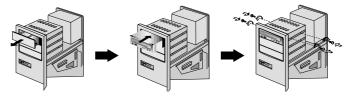
You will need the following:

- · A screw driver of a suitable size to fit the securing screws for the drive unit.
- · The manual for the computer, so you can find the mounting positions for the IDE controller cable.
- Turn off all peripheral appliances of the computer and the computer itself, and disconnect their power cords from the wall sockets.
- Discharge any static electricity on your person by touching the computer covers, etc.

Make sure all peripheral devices of the computer and the computer itself are turned off, and then remove the cover. Refer to the manual for the computer for details about removing the cover.

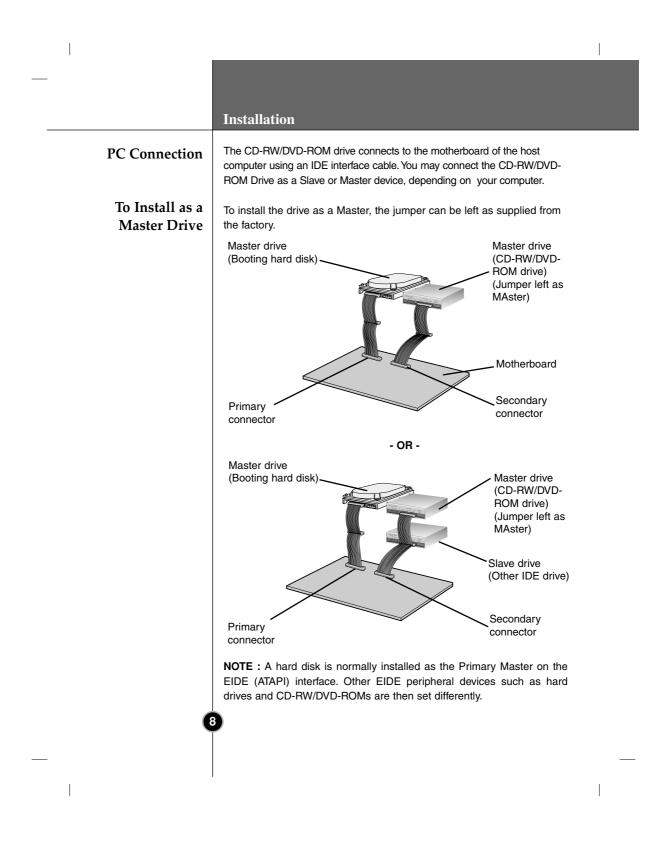
NOTE : There may be sharp edges inside the computer so take care to avoid injury.

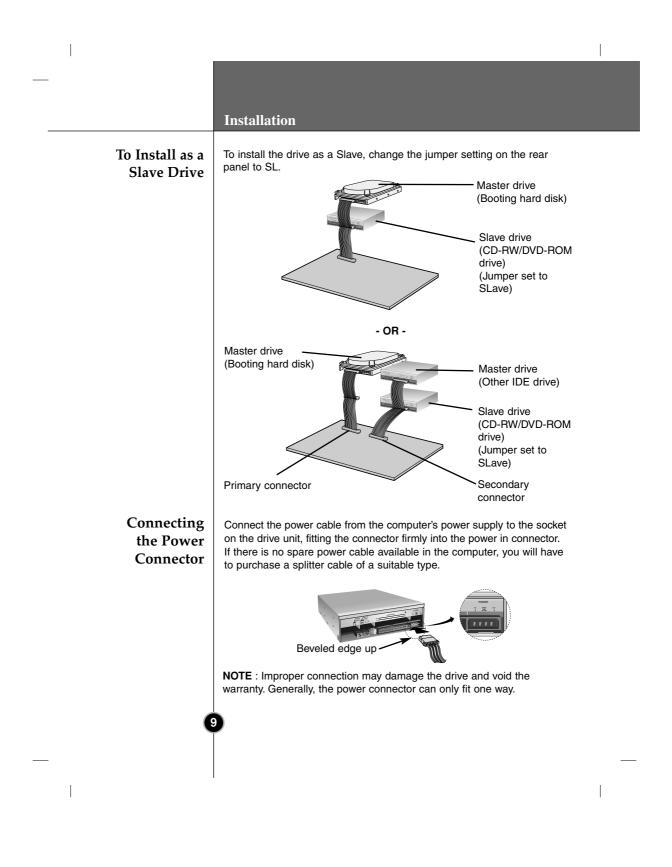
- 1. Remove the $5^{1}/_{4}$ drive bay panel from the computer. Refer to the manual for the computer for details.
- 2. Insert the drive unit into the bay. Do not apply excessive pressure to the cables inside the computer.
- 3. Secure the drive with the screws provided. If there is not enough space behind the drive, connect the IDE and other cables before securing the drive.

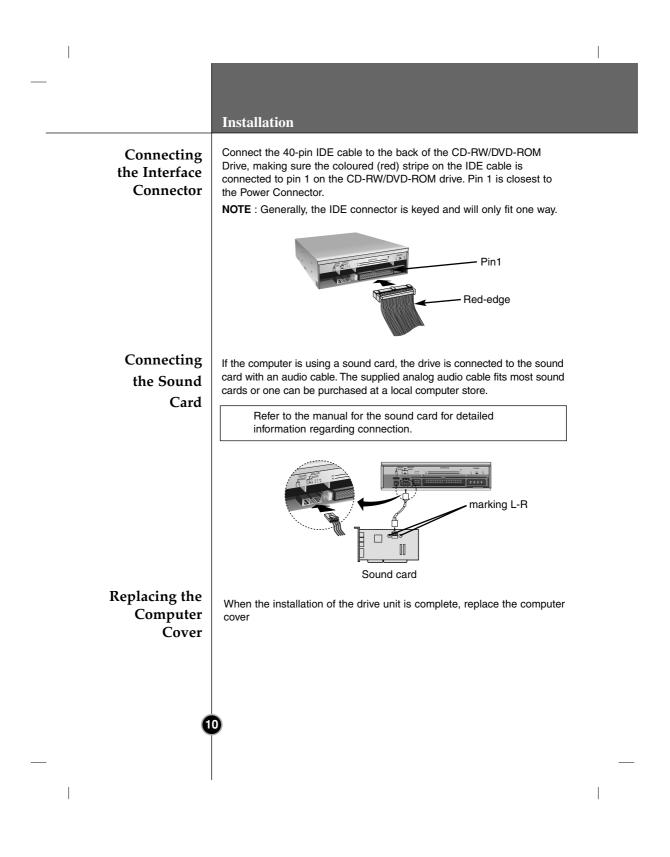


NOTE : This is a general installation guide. If your PC hardware appears different, please consult your hardware manual for installing peripheral devices.

	Installation	_	
Jumper Setup	Before installation, set the jumper connector on the rear panel. The drive can be connected as the Master or Slave on an EIDE (ATAPI) interface. When several (up to four) EIDE devices are connected, each must be set in a unique way. Specific knowledge of hardware and software is necessary to install the drive.		
	NOTE : If two peripheral devices with the same settings are both connected to the Primary or to the Secondary EIDE bus, the host computer may fail to run or may malfunction. Careful attention is necessary. CS: Cable Select (CSEL) SL: Slave MA: Master MATE : Only one jumper should be installed on the jumper connector. If more than one jumper is installed, the drive may malfunction or be damaged. Master/Slave setting is determined by jumper installation on the Jumper Connector. The following table shows the possible jumper settings.		
	Name	Function	C S M S L A
	MA (Master)	Drive set as Master	
	SL (Slave)	Drive set as Slave	
	CS	Drive mode set by CSEL on the	
	(Cable Select)	host IDE interface	
	(Cable Select) If you use CSEL automatically, dep	host IDE interface setting, the MASTER/SLAVE setting pending on the hardware configurati to the manual of your computer.	
	(Cable Select) If you use CSEL automatically, dep	setting, the MASTER/SLAVE setting	







Installation

Device Drivers

When using Windows 95/98/2000/Me/XP or Window NT Workstation Ver.4.0, no special device driver is required. Your system, upon Power On and bootup after installing and connecting the new CD-BW/DVD-BOM drive, will recognize and load native software

the new CD-RW/DVD-ROM drive, will recognize and load native software drivers automatically.

The DOS and Windows 3.1 users can download the DOS Device drivers anytime via internet.

- For your information, please consult the following internet sites: http://www.lge.com http://www.lgeservice.com/drivers.html
- In order to ensure normal drive operation, please check the following:
 The drive is displayed in
 Windows 05 (09 (ME + [Control Density] [Density Manager])
 - Windows 95/98/ME : [Control Panels]-[System]-[Device Manager]-[CD-ROM]

Windows 2000/XP : [Control Panels]-[System]-[Hardware]-[Device Manager]-[DVD/CD-ROM-Drive]

- 32-bit is displayed in
 [Control Panels]-[System]-[Performance]
- If the drive is not recognized by your computer, please check the following items.
 - If a finite indicator is displayed on the IDE controller in [Control Panels]-[System]-[Devices Manager]-[Hard Disk Controller], you will need to contact your PC's manufacturer or the motherboard's manufacturer and get the appropriate IDE controller driver.
- Run Add New Hardware in Control Panel to let PC search again for new device.
- In order to ensure normal drive operation, please check to see if the drive is displayed on the IDE controller in [Control Panels]-[SCSI Adapter]-[Devices]
- If the drive is not recognized by your computer, a **①** indicator is displayed on the IDE controller in [Control Panels]-[SCSI Adapter]-[Devices], you will need to contact your PC's manufacturer or the motherboard's manufacturer and get the appropriate IDE controller driver.

For Windows 95/98/2000/ME/ XP Users

For Windows NT Workstation Ver.4.0 Users

Operation

How to Use the Discs

When using CD-ROM discs, CD-R discs, DVD discs or CD-RW discs, don't attach any stickers or labels to the discs. Using discs with them attached not only causes read and write errors, but data on the disc may be lost due to damage to the disc itself.

The Discs in this unit operate at a very high speed! DO NOT use damaged, cracked or warped discs. The drive's optical unit may be damaged if they break.



DO NOT use non-standard discs. NON-standard discs may not play or store data properly.

Emergency Eject

This drive has a feature that allows the CD to be ejected manually if this becomes necessary in an emergency, such as failure of the drive or a power outage.

NOTE: Don't use this feature except in an emergency.

- 1) Turn the power to OFF.
- Poke a fine-tipped object (such as a straightened heavy duty paper clip) into the small hole above the eject button. The front door will pop open and the disk tray will come partway out.
- Pull the front door to open it all the way, then grip the disc tray between thumb and forefinger and gently pull it straight out.



NOTE: This feature is a last measure to be used only in an emergency. Using it excessively will cause malfunction.

* If you cannot get a good grip on the disc tray with your fingers, use a steel binder clip or spring clamp to pull it out.



Appendix

Troubleshooting

Before Before calling for service, check this list. Requesting • The drive doesn't have power.

Service

- The drive doesn't have power.Is the power supply cable from the host computer plugged in?Is the Power Connector to the drive securely attached?
- The system doesn't start.
- Are the Primary and Secondary connections and the Master and Slave settings correct?
- Is the total length of the IDE cable 18 inches or less?
- Is each connector completely attached?
- Movement of the PC may loosen connections.
- Cannot Read or Write Discs.
- Is the condition of everything else in the system (CPU, hard disc, and others) as it should be? (See system environment page 4.)
- Does the CD-R, DVD or CD-RW disc have dirt or scratches?
- Did a screen saver or other application operate while writing to the disc?
- Is there enough free space on the CD-R/RW disc?
- Does writing fail even using the simulation test?
- Is the disc loaded in the drive with the read/write surface facing the right direction? (label up)
- Is the drive installed in the correct orientation?
- Was the drive or disc moved from a low temperature environment to a high temperature environment? (There is a possibility of condensation on the lens in the drive or on the surface of the disc.)

When you call for service, be prepared to give as much information as possible of your system, environment, and the specific problem. (What happened? When? How long? What was going on? Were there any error messages displayed? etc.)

Please Note: Since this product supports Region Playback Control Phase II, a certain MPEG decoder card or Software without regional code setting may cause this drive not to read DVD-ROM discs. This Drive enables you to change the regional code up to 5 times.



Specifications

Items		CD/DVD/CD-RW		
General	Supported Discs			
	*Read Function	CD-ROM, CD-ROM XA, Audio CD, Mixed Mode (Audio and		
		Data Combined), CD-I FMV, Video CD, Photo CD (Single		
		and Multi -Session), CD-Plus/CD-Extra, CD-Text		
		DVD-Single/Dual, DVD-R/RW, DVD+R/RW		
	*Write Function	CD-ROM, CD-ROM XA, Audio CD, CD-I FMV, Video CD,		
		CD-Plus/CD-Extra		
	Disc Diameter	12cm/ 8cm, standard size CD's		
	Host Interface	E-IDE/ATAPI		
	Read/Write Speed	Write (CD-R) : 4X, 8X, 16X, 24X, 32X, 40X, 48X		
		Write (CD-RW) : 4X, 10X, 16X, 24X		
		Read (CD-ROM) : max 48X Read (DVD) : max 16X		
	Mounting direction	Horizontal/Vertical		
Performance	Data transfer rate			
	*Sustained	CD: R/RW: 2550 to 6000 KB/s (17X-40X CAV)		
		ROM: 3000 to 7200 KB/s (20X-48X CAV)		
		DVD: Dual: Data: 4460 to 10800 KB/s (3.3X-8X CAV)		
		Movie: 3370 to 8100KB/s (2.5X-6X CAV)		
		Single: Data: 8700 to 21600 KB/s (6.5X-16X CAV)		
			0800 KB/s (3.3X-8X CAV)	
		,	370 to 8100KB/s (2.5X-6X CAV)	
	*Burst(ATAPI)	16.67 MB/s (PIO Mode 4), 16.6	· · · · · · · · · · · · · · · · · · ·	
		33.34 MB/s (Ultra DMA Mode	/	
	Average Access Time (Random)	CD-RW/CD-ROM: 110ms(Typ	· · · · · · · · · · · · · · · · · · ·	
	. ,	DVD(Single Layer) : 120ms(Ty	(pical)	
	Buffer capacity	2 Mbytes		
Aurilia Ordered	MTBF	125000 Power On Hours (Duty Cycle 10%)		
Audio Output		0.7 Vrms at 47 kohm		
	Headphone	0.6 Vrms at 32 kohm		
Conditions	When operating	Temperature: 5 °C to 45 °C	Humidity: 10% to 80% R.H.	
	When not operating	Temperature: -20 °C to 60 °C	Humidity: 5% to 90% R.H.	
Dimensions & Mass	Dimensions (WxHxD)	5.75"x7.27"x1.63" (146 x 184.7 x 41.3 mm)		
	Weight	Less than 2lbs.(0.90Kg)		
Electrical	Power	DC 5V, DC 12V		

The drive's appearance and specifications may change without prior notice.

Copyright © 2002 🚯 LG

LG Electronics U.S.A. Inc. 1000 Sylvan Ave. Englewood Cliffs NJ 07632 U. S. A. or http://www.lgeus.com

LG Electronics Canada Inc. 550 MATHESON Blvd. East Mississauga. Ontario L4Z4G3 CANADA

LG Electronics Deutschland GMBH Jakob-Kaiser-Straße 12, D-47877 Willich, Germany

LG Electronics U. K. Ltd. LG House, 264 Bath Road, Slough Berkshire SL1 4DT United Kingdom

Goldstar France S.A.R.L Paris Nord II 22, Avenue des Nations-B.P.50372 VILLEPINTE 95945 ROISSY CDG CEDEXLG France

LG Electronics Italia S.P.A. Centro Direzione "IL Quadrate" Via Modigliani, 20090 Segrate (MI) Italy

LG Electronics España Complejo Europa Empressaries (Edif.Bruselas) Ctra. N-VI 28230 Las Rozas Madrid Spain

LG Electronics Australia Pty Ltd. 23, pike st Rydalmere NSW 2116 or http://www.lge.com.au

Caution!

The disc rotates at high speed in the drive unit. Use of worn, damaged, or non-standard CD-ROM discs can only adversely affect the drive and cause the disc to shatter or crush while in use.

Disc crush can only occur when you use a damaged CD-ROM disc in the drive. It is an extremely rare occurrence, but there are steps which can be taken to prevent it.

Always check your discs before inserting them into the drive.

- 1. Take care not to use worn, cracked, damaged, warped or poor quality CD-ROMs, as this may cause damage to your drive.
- 2. Check the clear plastic on the center of the disc, cracks here are the main cause of disc crush.
- 3. Do not play CD-ROMs which are a non-standard (I.e. non-circular)shape, such as heart shaped
- discs, or discs in the shape of a business card.

How can you keep your discs from becoming damaged?

 When not in use, remove discs from the drive.
 Keep discs in the packaging supplied with them and out of direct sunlight and away from heat sources.

Excessive vibration or a sudden jolt to the drive during operation may cause a malfunction. Avoid exposing the drive to sudden changes in

temperature as it may cause condensation to collect inside the drive.



Website ; http://www.lge.com http://www.LGEservice.com

P/NO. 3828HM1038A

©2002 Made by **(LG**

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com