SAFETY INSTRUCTIONS

1. Please read these safety instructions carefully.
2. Please keep this User's Manual for your reference.
3. Please disconnect the equipment from your AC outlet before cleaning.
   Do not use liquid or sprayed detergent for cleaning.
   Use moist sheet or cloth for cleaning.
4. For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.
5. Please keep this equipment away from humid areas.
6. Install this equipment on a reliable surface. If the equipment is not on a reliable surface, it may drop and cause injury.
7. The openings on the enclosure are for air convection. Please protect the equipment from overheating . DO NOT COVER THE OPENINGS.
8. Make sure the voltage of the power source is appropriate when connecting the equipment to the power outlet.
9. Place the power cord where people will not step or trip on it. Do not place objects over the power cord.
10. All Cautions and Warnings on the equipment should be noted.
11. If the equipment is not in use for several days, disconnect the equipment from the power outlets to avoid damage by transient power surges.
12. Never pour any liquids into the openings, this could cause fire or electrical shock.
13. Never open the equipment. For safety reasons, the equipment should only be opened by qualified service personnel.
14. If one of the following situations arises, get the equipment checked by a qualified service personnel:
    (a) The power cord or plug is damaged.
    (b) Liquid has penetrated into the equipment.
    (c) The equipment has been exposed to moisture.
    (d) The equipment has not worked well or you can not get it to work according to the user's manual.
    (e) The equipment was dropped and damaged.
    (f) If the equipment has obvious signs of damage.
15. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT UNCONDITIONED; STORAGE TEMPERATURE ABOVE 60℃(140℉), IT MAY DAMAGE THE EQUIPMENT.
16. DANGER: Invisible laser radiation when opened. Avoid direct exposure to beam. Complies with FDA radiation performance standards,21 CFR, subchapter J.

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 will not occur in a particular installation. If this equipment does cause harmful 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 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 experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example – use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

PRECAUTIONS

!! Do not attempt to open the drive and service it. Removing the cover may cause exposure to harmful laser beams and electrical voltage. User is recommended to get service by returning the defective drive back to the original vendor where the drive was purchased.

- Use the original package for transporting the drive or sending back for service. The original packing was designed and tested to protect your drive under rough conditions.
- Do not put this drive in direct sunlight, on heating units, or near electrical appliances which draw large amounts of current.
- Use a soft, dust-free cloth for cleaning your drive. Keep your drive away from moisture or liquids including water, cleaning-fluids, or solvents.
- Keep your disc clean. Using a soft, dust-free cloth to clean the surface of the disc before recording will improve the burning data integrity.
- Do not drop or jolt the drive.
- Keep the area around the drive clean from dust, smoke, and other contaminants.
- The copyright law of each country governs the reproduction of copyrighted works. The person using the drives may be liable for its use to make unauthorized copies of copyrighted works.
- It will increase the success rate for copying the data from HDD, instead of copying the data by "copy on the fly mode". Therefore we recommend the user reserving sufficient buffer space for creating an image file (at least 650MB for CD; 5GB for DVD; and if your drive support Double Layer DVD+R or Dual Layer DVD-R writing, then at least 9GB space is needed).
- Use only Qflix media to burn the content of the purchased movie.

WARNING

This device can record on discs marked with the  logo. Such recorded discs are intended to be played in DVD-Video play only devices, and may not play in other DVD devices including recorders and PC drives which are not marked with the  logo.

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INTRODUCTION

Thank you for purchasing this DVD Writer, a reliable, high-performance recordable DVD and CD writer, rewriter and player. Please read this manual carefully and keep it handy for easy reference. Use the manual for installation, operation and troubleshooting for this drive.

What the DVD Writer Does

The DVD Writer is a recordable DVD/CD-ReWritable drive that provides professional quality DVD and CD performance for writing, rewriting and reading. It also reads Digital Versatile Discs (DVDs) formatted for movies and data. This versatile and remarkable drive can:

For DVDs

- Write DVD+R (recordable DVD) media.
- Write Double Layer DVD+R (recordable DVD+R9) media.
- Write DVD+RW (re-writable DVD) media.
- Write DVD-R (recordable DVD) media.
- Write Dual Layer DVD-R (recordable DVD-R9) media.
- Write DVD-RW (re-writable DVD) media.
- Read DVD (DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-ROM, DVD+R9 and DVD-R9) discs.
- Read and write to DVD-RAM media.
- Read and write to DVD Qflix media

For CDs

- Write to CD-R (recordable CD) media.
- Write to CD-RW (rewritable CD) media.
- Read all CD-ROM and CD-R data media.
- Read CD-RW and CD-DA (audio) media

The following are the drive's maximum Writing, ReWriting and Reading speeds.

Data Transfer Rate (maximum)	
DVD+R Writing	20X for excellent 16X media
DVD+R DL Writing	8X
DVD+RW Rewriting	8X
DVD-R Writing	20X for excellent 16X media
DVD-R Writing	8X
DVD-RW Rewriting	6X
DVD-RAM Rewriting	12X
DVD Qflix Writing	8X
DVD-ROM	16X
CD-R Writing	48X
CD-RW Rewriting	32X
CD-ROM Reading	48X

The drive supports Running OPC (ROPC) and is compatible with Windows Plug & Play. Flash memory allows upgrading the drive to the latest firmware revision (available from the web site) without opening the drive. Buffer Underrun Proof technology eliminates buffer underrun errors, therefore you can safely use your computer for other things while you're writing to a recordable DVD and CD media.

Format Compatibility

This DVD Writer is a versatile optical disk drive. For CD write function, it is capable to write data, which conforms to Orange Book: Part 2 CD-R Volume 1 / Part 2 CD-R Volume 2 Multi Speed / Part 3 CD-RW Volume 1 (known as Low Speed) / Part 3 CD-RW Volume2: High Speed / Part3 CD-RW Volume 3: Ultra Speed, into CD-R/RW disk in combination with write application software.

For DVD write function, this drive confirms to DVD+R Version 1.3 / DVD+R9 Version 1.0 (only for a Double Layer DVD+R writing support drive) / DVD-R9 Version 3.0 (only for a Dual Layer DVD-R writing support drive) / DVD+RW Version 1.3 / DVD-R Version 2.1 / and DVD-RW Version 1.2, DVD-RAM Version 2.2 (only for a DVD-RAM rewriting support drive), DVD Qflix.

For read function, it is capable to read all of the following media: DVD single/dual layer (PTP, OTP), DVD-R, DVD+R, DVD+R9, DVD-R9, DVD-RW, DVD+RW, DVD-RAM (only for a DVD-RAM reading support drive), DVD Qflix.

Besides, it reads all of CD formats and media: CD-DA, CD-ROM, CD-ROM/XA, Photo-CD, Multi-session, Karaoke-CD, Video CD, CD-I FMV, CD Extra, CD Plus, CD-R, and CD-RW.

Recording Modes

Track at Once

Data can be recorded to a disc, one track at a time. New tracks can be added later. Music CDs can not be played in a CD player or CD-ROM until the disc is closed.

Disc at Once

Data can be recorded to an entire disc in one pass. In this mode, new data added later is not allowed.

Session at Once

Data can be recorded to disc one session at a time. New sessions can be written later in this mode. More disc space can be used because there is no gap between tracks.

Multi session

Data can be recorded to disc in one session. New sessions can be written later in this mode. Less disc space can be used because a gap is created between sessions.

Packet Writing

This is useful for data back up. Data can be added directly to tracks on media or can be deleted directly from tracks only on media. To use this mode, your software must support Packet writing function.

What You Can Do with the DVD Writer

- Record digital video or slide shows onto DVD+R, DVD+RW, DVD-R, DVD Qflix and DVD-RW discs.
- A Double Layer DVD+R writing support drive will be able to write DVD+R9 disc.
- A Dual Layer DVD-R writing support drive will be able to write DVD-R9 disc.
- Play DVD+R, DVD+RW, DVD-R, DVD Qflix and DVD-RW discs.
- Record data or audio onto recordable or rewritable CD media.
- Play music CDs.
- Play VCD & DVD movies.
- Access interactive reference materials stored on DVD.
- Save photos and other images on recordable or rewritable CDs.
- Archive images and video to DVD or CD.
- Master new software programs on DVD or CD.
- A DVD-RAM reading or rewriting support drive will be able to read or write to DVD-RAM disc.

SYSTEM CONFIGURATION

System Requirements for USB 1.1

This drive has a high-speed Universal Serial Bus (USB) 2.0 interface. You can also use it with USB version 1.1. To ensure stable read/write/rewrite performance, an IBM compatible PC system with the following features is recommended.

CPU	Pentium 4 1.3GHz or higher with built-in USB 1.1 controller (some USB controllers or motherboards may not support all types of USB devices.)
OS	Microsoft Windows 2000/XP/Vista
Memory	Must meet recommended RAM requirements for your operating system. (minimum 256MB is recommended)
CD-ROM Drive	For software installation
Hard Drive	Minimum 650MB available capacity for creating a CD image file; 5GB free HDD space for creating a DVD image file to a Single Layer DVD disc (4.7GB); and 9GB or above free HDD space for creating a DVD image file to a Double Layer DVD+R9 or a Dual Layer DVD-R9 disc (8.5GB). *(Do not enable HDD thermal calibration during operation)*
Interface	USB interface connector

NOTE:

(1) Connecting USB 1.1 interface the drive's top performance is 4X for CD-R, 4X for CD-RW and 6X for reading a CD-ROM. In addition, DVD speed is limited to 0.7X. Therefore, we strongly suggest you NOT to apply any DVD function when connected with USB 1.1 interface.

(2) Some high-speed hard drives are equipped with an "Auto Thermal Re-calibration" function. Please disable it in the BIOS setup to avoid writing errors (Buffer Under-run).

Additional Requirements for USB 2.0

Interface	High Speed USB 2.0 interface required to achieve maximum speeds

NOTE:

(1) High Speed USB 2.0 adapter card is sold separately and will not be bundled in this package.

(2) To achieve maximum record/write speed your system may require data to be copied first to the computer's hard drive rather than directly from another source disc or drive.

FEATURES AND CONTROLS

Front View

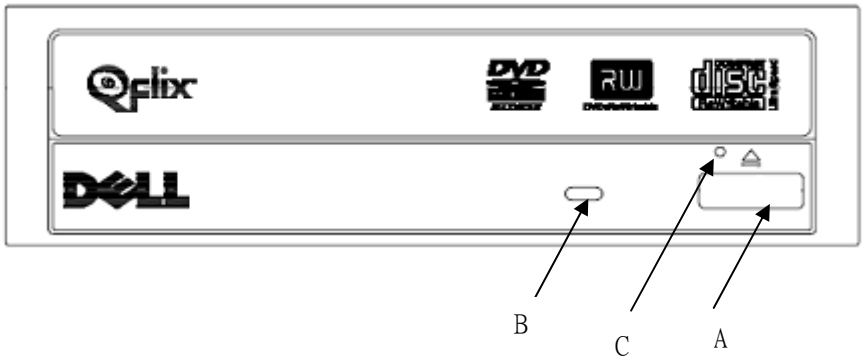


Figure: Front view of DVD Writer

A	**Eject/Close Button**	Push button to eject/close the tray.
B	**Busy / Write LED**	Indication of drive's operation status. The light lit stands for Busy; the light blinking stands for Write/Rewrite.
C	**Emergency Eject Hole**	In case the Eject button isn't working, insert a small stick or paper clip into this hole to eject the tray. ***Note: Turn off the power before doing this manual ejection.***

Rear View

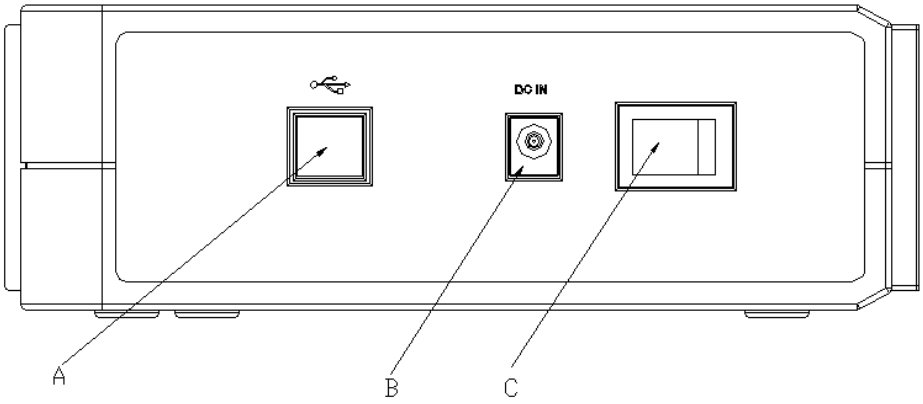


Figure: Rear view of DVD Writer

A	**USB Connector**	Standard USB B type jack.
B	**Power Connector**	Five-pin connector for DC power input.
C	**Power Switch**	

INSTALLATION

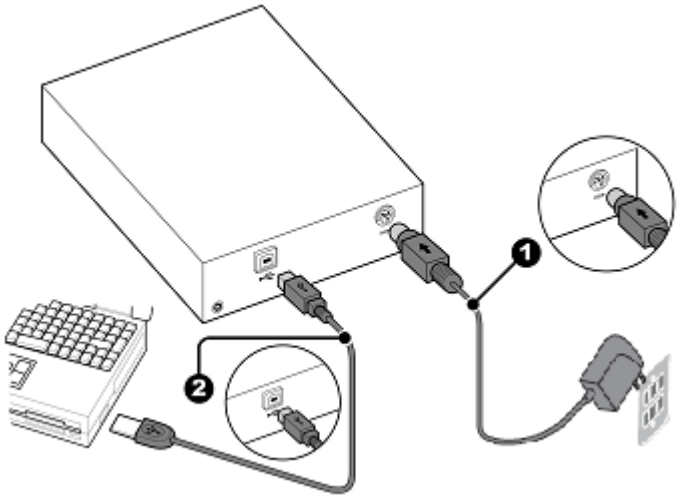
USB 2.0 Users

USB 2.0 is a very new technology. Therefore, most computers do not have native support for USB 2.0. You must install a USB 2.0 adapter card for your External drive to run at USB 2.0 speeds. If you do not have a USB 2.0 card installed, this drive will still work connected to a standard USB 1.1 connection, but the speed will be limited to USB 1.1 speed. After installing a USB 2.0 adapter card, follow the steps below for your operating system to verify the USB 2.0 card is installed properly.

Windows® 2000/XP/Vista users:

Right click My Computer and select Properties.
Select the hardware tab.
Click the Device Manager button.
If there is a yellow exclamation point next to Universal Serial Bus Controllers, contact the card's manufacturer for help.

CONNECTION



1. **Connecting the Power Supply Cable.**
2. **Connecting Hi-Speed USB 2.0 Cable.**

INSTALLING THE DRIVE

1. **Connect the USB cable to the external DVD writer**

   Plug the USB cable into the USB port on the back of your external DVD writer.

2. **Connect the USB cable to your PC**

   Locate an available USB port on your PC and plug the other end of the USB cable into that port.

   Note: High Speed USB (2.0) ports provide high-speed data transfer rates. You can connect the external DVD writer to an USB (1.1) port, but this is not recommended because it will significantly lower the external DVD writer's read and write speeds. If you are unsure about which ports are available on your PC, check your PC manual or Windows device manager.

3. **Connect the power supply to your external DVD writer**

   Plug the power supply into the back of your external DVD writer

4. **Connect the power supply to a wall outlet**

   Plug the power supply into the outlet or power strip. Then, turn on the power switch at the back of the drive.

   Note: Your power plug and outlet may differ from the illustration. The power switch must be turned off before unplugging the power cord.

   Troubleshooting Tip: You can verify that your external DVD writer has power by pressing the EJECT button on the front of the external DVD writer to open and close the tray. If the tray does not open, ensure that all the cables are plugged in properly and securely. Ensure both wall socket and the drive power switches are turned on.

5. **Install the software**

   Note: Please ensure your external DVD writer is detected and properly installed by the operating system before installing application software.

   For further troubleshooting assistance, please refer to your PC's and the Microsoft Window's help, under "help and support" section, on "adding new devices"

   Insert the Software Installation Disc into your external DVD writer. Click on the Install Suite. Follow the on-screen instructions for software installation.

OPERATION

Installing Necessary Device Drivers

In Windows, the DVD Writer acts as a "CD-ROM Drive" for purpose of installation and setup. In some cases, you will need to install additional software to make use of all the features of the DVD Writer.

To use the DVD Writer on a computer:

- **As a CD-ROM drive:** Most Windows Operating Systems (Windows Vista, Windows XP, Windows 2000) supply a generic CD-ROM device driver that allows the DVD Writer to function as a standard CD-ROM drive. You do not need to install anything else.

- **As a DVD-ROM drive:** The computer's operating system (excluding Windows 98SE/ME) also allows the DVD Writer to function as a DVD-ROM drive. You do not need to install anything else to play DVDs.
- **As a CD ReWriter or DVD ReWriter:** In order to write to CD or DVD media, you will need write application software.

Loading and Unloading the Tray

(1) While the DVD Writer is powered up, push the Eject button on the front panel. The tray drawer slides out in a few seconds.

(2) Lay a disc with the label facing up in the depression of the tray. The disc should lie flat in the tray.

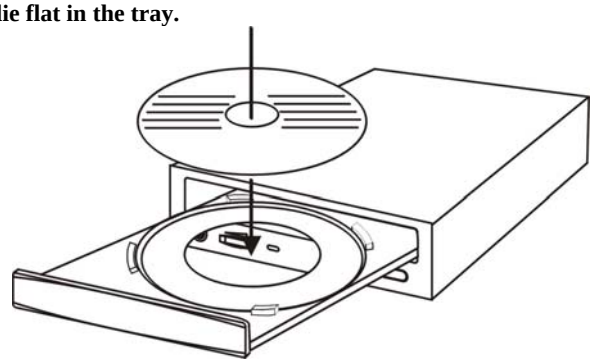


Figure: Loading the Tray

(3) Press the Eject button again and the tray will slide shut within seconds.

RECORDING CDS & DVDS

Before you start, please make sure you have installed the proper write application software for Recording CDs, DVDs and Playing DVDs.

Recommended Recordable & ReWritable Media

Some CD media or DVD media may not be possible to write on, due to differences in the manufacturing quality. We recommend you use CD and DVD media from the following manufacturers that have been proven satisfactory with our drive.

CD-R Media:		CMC, Daxon, DST, Fornet, Fujifilm, GAT, Gigastorage, Infodisc, KingPro LeadData, Maxell, MBI, MCC, MPO, NanYa, Postech, Princo, Prodisc, Ramedia, Ricoh, Ritek, SAST, SKC, Sony, TDK, Taiyo-Yuden
Low Speed CD-RW Media:		CMC, Daxon, Gigastorage, Infordisc, LeadData, MCC, Princo, Prodisc, Ricoh, Ritek
High Speed CD-RW Media:		CMC, Daxon, Fornet, Gigastorage, Infodisc, LeadData, MCC, NanYa, Princo, Prodisc, Ricoh, Ritek
Ultra Speed CD-RW Media:		CMC, Daxon, Infodisc, Mitsubishi, Prodisc, Ritek
DVD-R Media:		Maxell, Mitsubishi, TDK, Sony(16X)
DVD-R9 Media:		MKM
DVD-RW Media:		CMC, JVC, MKM, Ritek, TDK
DVD-RAM Media:		Maxell, Panasonic
DVD+R Media:		CMC, MBI, Mitsubishi, Taiyo-Yuden, TDK, Sony(16X)
DVD+R9 Media:		Mitsubishi, Ricoh, Ritek
DVD+RW Media:		Infodisc, MBI, MCC, Philips, Prodisc, Ricoh, Ritek, Sony

DVD Qflix Media:		Ritek, MKM

PLAYING CDS & DVDS

Video Playback

You must first install a DVD playback software to your computer to enable video playback

You can immediately play Audio CDs and pre-recorded DVD discs, including movies and other DVDs. To play a CD or a Digital Video Disc (DVD), insert the disc with the label up (for CDs). This DVD Writer plays both single-layer and dual-layer DVDs.

Playing Audio CDs

To listen to music through the computer's sound board, you can control volume with the volume control on the Windows Media Player or CD Player Taskbar. You can also mute the sound on your sound board and listen to music through headphones or self-powered speakers.

Playing DVDs for the First Time

A code on some DVDs allows them to be played only in a certain regional area, such as North America, Europe, etc. When the DVD Writer ships, there is no region code set. The first time a DVD that has a region setting is inserted into the DVD Writer, the act of inserting the DVD sets the drive to that region code.

If you later insert a DVD with a different region code, you are prompted to either accept changing the region code or not. If you do not accept the change, then that DVD will not play. If you do accept the change, then the DVD Writer's region code setting is changed. **But, advised that you may change the DVD Writer's region code only 5 times. After that, you will not be able to change your drive's code setting.**

TROUBLESHOOTING

If you meet any trouble during installation or normal use of your drive, please refer to the following information.

Read Problems

Symptom	Possible Causes	Solutions
No operation.	No power.	• Check if the power cord is connected securely to the connector.
	USB cable isn't connected properly.	• Ensure that the USB cable and connectors are not damaged, bent or dented. Check especially the pins.
No drive recognition.	Power is not switched on.	• Check if LED of your drive is lit. If not, there is no power.
	USB cable is not connected properly between the computer USB port and the drive.	• Ensure that both connectors of the USB cable is properly connected to the USB ports on the computer and the drive.
	USB drive is not recognized by the Windows Operating System.	• Please refer to the USB 2.0 Users chapter and check if the USB driver is installed properly.
Excessive noise when reading.	Eccentric disc loaded.	• Replace it with another one.
	Seal attached on the surface	• Detach the seal very carefully. Don't make any scratches.
Cannot open the tray (Eject).	Eject locked by software.	• Stop the applying software and try the eject button to open the tray.
	CD set incorrectly.	• Insert a small stick or paper clip into this hole to eject the tray.
• Cannot read the former session of the CD-RW disc which has been written at least twice.	"Load Contents" or "Import Session" was NOT clicked on the Software.	• If recorded without checked "Load Contents" or "Import Session", it is impossible to read. But when using utility software such as "Session Selection" from Adaptec, the former session can be read.
• Read error occurs.	Defective disc.	• Deep scratches, fingerprints or other contaminants on the discs surface can disable the drive from reading data. Always keep it clean.
	Music CD inserted.	• Because audio compact discs do not have computer data, typing computer commands while an audio CD is in your drive will result in an error message.
	Disc inserted upside down.	• Remove the disc from tray and reinsert it with the label side up.

Write Problems

Symptom	Possible Causes	Solutions
Cannot write.	Disc inserted upside down.	• Reinsert the disc with label side up.
	Short of Hard Disk capacity.	• Generally 1.2 to 2 times the size of the write data is required. This may vary according to the write method.
	No power.	• Check if the power cord is securely connected to the connector.
	USB cable isn't connected properly.	• Ensure that the USB cable and connectors are not damaged, bent or dented. Check especially the pins.
	• Network used. • Window screen saver activated while writing. • Other application running.	• When running saver or other applications or writing in a network environment, errors may occur due to lack of CPU resources in PC. • Rewrite after log-off from the network. • Deactivate the screen saver or power saving mode. • Quit other applications other than the authoring software.
Writing errors occur (Buffer under-runs).	Short of PC memory.	• Due to shortage of main memory in PC, swapping of hard disc space may have occurred. If swapped, data from the hard disc may cut off causing buffer under-runs. • Increase main memory capacity.
	"Auto thermal re-calibration" triggered.	• Disable "Auto thermal re-calibration" in the BIOS setup. • Use another Hard Disk if can not disable it.
	Defective DVD/CD media.	• DVD/CD media may be dirty, scratched or damaged. Rewrite on another DVD/CD media.
	Short of Hard Disk capacity.	• Generally 1.2 to 2 times the size of the write data is required. This may vary according to the write method.
	USB cable is not connected properly between the computer USB port and the drive.	• Ensure that both connectors of the USB cable is properly connected to the USB ports on the computer and the drive.
No drive recognition.	USB drive is not recognized by the Windows Operating System.	• Please refer to the USB 2.0 Users chapter and check if the USB driver is installed properly.

Symptom	Possible Causes	Solutions
	DVD/CD media not compatible with highest speed.	• Use the highest speed compatible discs or write with lower speed.
	Buffer under-run occurs.	• Refer to the "Buffer under-run" item.
Can not write at highest speed.	Defective DVD/CD media.	• DVD/CD media may be dirty, scratched or damaged. Rewrite on another DVD/CD media.

TECHNICAL SUPPORT AND CUSTOMER SERVICE

Dell's support service is available to answer your questions about Dell™ hardware.
Our support staff uses computer –based diagnostics to provide fast, accurate answers.

Dell Connect

DellConnect is a simple online access tool that allows a Dell service and support associate to access your computer through a broadband connection, diagnose your problem and repair it all under your supervision. For more information, go to support.dell.com and click DellConnect.

Online Services

You can learn about Dell products and services on the following website:
www.dell.com

You can access Dell support through the following website and e-mail address:

- Dell support website
  support.dell.com

- Dell support e-mail address
  mobile_support@us.dell.com
  support@us.dell.com

Contacting Dell

NOTE: If you do not have an active internet connection, you can find contact information on your purchase invoice, packing slip, bill or Dell product catalog.

Dell provides several online and telephone-based support and service options. Because availability varies by country and product, some services may not be available in your area. To contact Dell for sales, technical support or customer service issues:

1. Visit **www.support.dell.com**
2. At the bottom of the page, verify your country or region.
3. Locate and click **Contact Us** on the left side of the page**.**
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

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