

User Guide - ENGLISH

FCC Compliance

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 deter-mined 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:

- Re-orient 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.

CAUTION

Change or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

LASER STANDARD

IEC 60825-1 :1993 +A1 :1997 +A2 :2001

WEEE

Correct Disposal of This Product (Waste Electrical &Electronic Equipment)
(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

• Samsung Eco-mark
The Samsung's own Eco mark helps consumers to easily understand that Samsung develops eco-friendly products. This mark represents Samsung's continuous effort to develop eco-friendly products.

• RoHS
(Restriction of the use of certain hazardous substances in electrical and electronic equipment). The RoHS, the environment regulation announced by European Union, restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in products put on the market in The European Union after July 1, 2006.

- <http://www.samsung-ODD.com>
- <http://www.samsung.com>

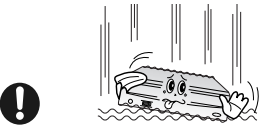
Safety Precautions

The following are basic precautions to ensure user safety and reduce the risk of property damage.

• When you install the drive

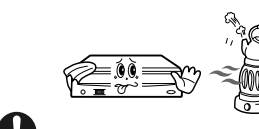
Place the drive on a level surface.

- Failure to do so may cause the device to fall onto a hard surface, resulting in damage or malfunction.



• While operating

- Avoid low- or high-temperature environments.



• Other

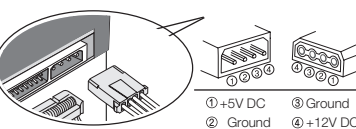
- Do not place the drive in direct sunlight.



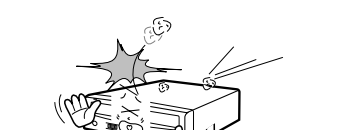
- Avoid high-humidity environments.



- If the power cable is not connected properly, it may cause a fire or damage the drive. Check the direction of the power connector and the drive incline before connection.



Handle with caution to prevent damage from external shock.



Warning/Caution

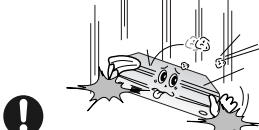


Warning: To warn the user that failure to comply with the instructions may result in serious injury or death.

Caution: To caution the user that failure to comply with the instructions may result in damage to property.

Do not drop the drive, and protect it from severe shocks.

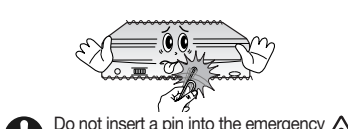
- It can damage the drive or cause it to malfunction.



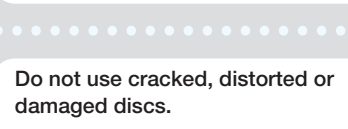
- Never allow food particles or foreign substances to enter the drive casing.



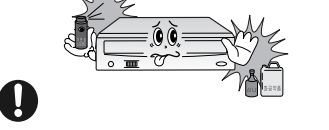
Do not move the drive while in operation and do not attempt to open the disc tray by force. Make sure to close all working programs before attempting to open the tray and always use the open/close button.



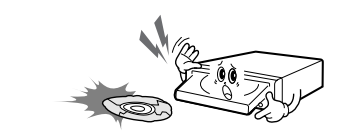
Do not insert a pin into the emergency opening while in operation.



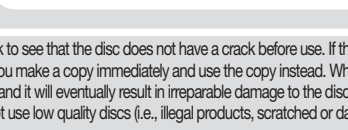
- To protect against the risk of fire, do not spill such liquids as alcohol and benzene on the drive.



Do not use cracked, distorted or damaged discs.



In particular, a disc with a crack on the inner tracks may break while in use.



Do not disassemble, attempt to repair or modify the device without express approval as directed in the manual.

- To reduce the risk of damage, electric shock, and fire.

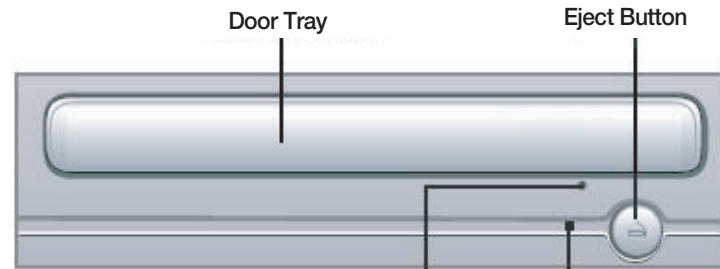


1. Check to see that the disc does not have a crack before use. If the disc has a crack (especially around the center hole), it is recommended that you make a copy immediately and use the copy instead. When a cracked disc is used continuously, the size of the crack is likely to grow and it will eventually result in irreparable damage to the disc.
2. Do not use low quality discs (i.e., illegal products, scratched or damaged discs).

Introduction

- Design and specifications are subject to change without prior notice.

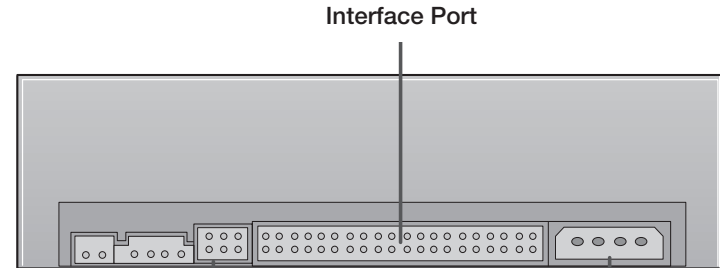
Front



Emergency hole

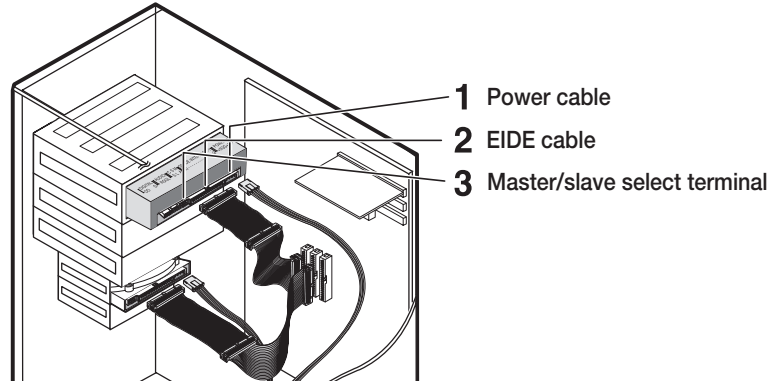
If the compartment does not open when you press the Eject button, power off the computer, insert a pin or unfolded paper clip in the hole and push firmly.)

Rear



Connecting the Cables to the DVD Writer

Connecting the Cables



1 Connecting the power cable

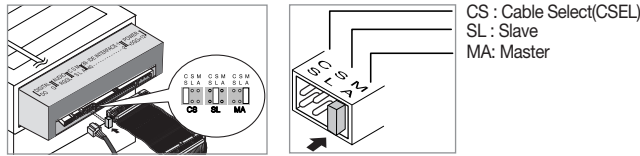
- The 4-pin power cable from the internal power unit of your computer must be connected to the power terminal the rear of the DVD Writer.

2 Connecting the EIDE cable

- Insert the EIDE cable, which is connected to the hard disk to the interface terminal. (Place the red line of the cable close to the Pin 1.)

3 Installing a jumper on the master/slave select terminal

- Connect a jumper to the rear side of the DVD Writer. If the jumper is connected to MA (Master), it will work in the Master mode. If the jumper is connected to SL (Slave), it will work in the Slave mode. If the jumper is connected to CS (CSEL), you can control the device by using the host interface signal CSEL. (In general, connection to MA is recommended.)



CS : Cable Select(CSEL)
SL : Slave
MA: Master

Installing the Drive

System Requirements

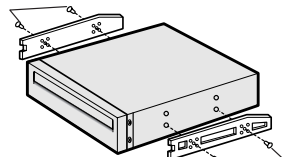
OS : Microsoft Windows 2000/XP/Vista
CPU : Pentium4 2.0GHz or above
RAM : 256MB or above(Windows 2000/XP)

Installing the DVD Writer

How to install the DVD Writer on your PC. First, remove the cover; connect the cable to the DVD Writer and then to the PC.

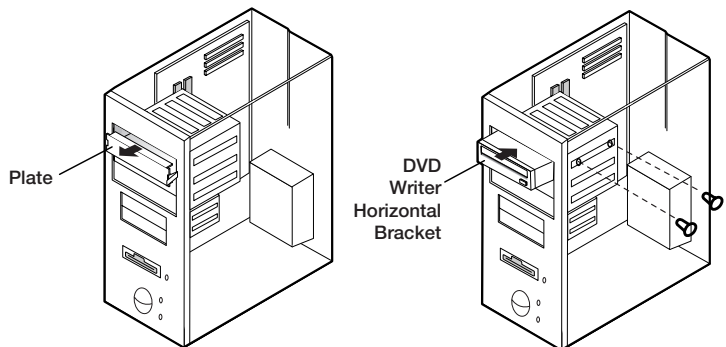
1 If necessary, attach a horizontal bracket to both sides of the drive.

- You can purchase these accessories separately from your computer dealer. (Screws for use: M3 X 6 X 4)



2 Remove the plate from a free expansion slot and install the DVD Writer, as shown in the illustration.

- If you have no free expansion slot, install the drive in place of the diskette drive.
- Make sure to use the standardized screws supplied (M3X6).
- To use screws other than M3X6 may result in malfunction.



Using the Drive/Storing and Cleaning Your Discs

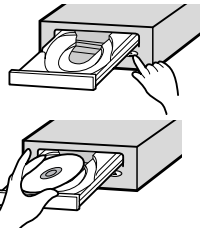
Using the DVD Writer

1 Push the power button and boot the computer.

2 After booting the computer, open the disc compartment by pressing the Eject button.

3 Insert the disc (CD) with the label on the disc facing upwards and close the disc compartment by pressing the Eject button. The indicator light comes on.

4 Play the disc (CD).



Playing CD-DA/Audio CDs

- Run the CD player program supplied with the sound card or play the Windows Media Player.

Playing Video CDs

- Follow the instructions provided with the disc.
- A video card or MPEG software and a sound card need to be installed to view video CDs.
- If the drive is vertically installed, you cannot use an 8 cm Mini Disc because the disc is movable.

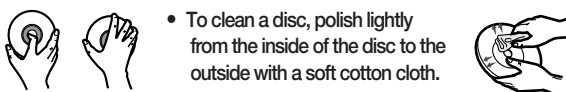
Storing Your Discs

- Do not place a disc in direct sunlight.
- Store a disc vertically in a well-ventilated and stable location.
- Do not write or attach a label on a disc.
- Do not drop a disc or place heavy objects on it.



Cleaning Your Discs

- Do not touch the surface of a disc; hold it by the edges.
- To clean a disc, polish lightly from the inside of the disc to the outside with a soft cotton cloth.



- The disc may not function properly if there are fingerprints, foreign substances or dust on the disc surface.

Solving Technical Problems

- The friction noise generated during SPIN-UP and STOP is caused by the Automatic Ball Balancing System(ABS) and is not a malfunction.

The tray doesn't open.	• See if the PC on. • Make sure the power cable within the PC is connected properly. • If the tray still won't open with the power on, turn the power off and insert a pin(paper clip) into the emergency hole to open.
The tray doesn't close.	• Make sure the disc has been inserted properly.
The drive is not working properly.	• See if the drive is connected properly to the PC. • See if the device drive program has been installed properly.
The Window OS can't detect the drive.	• See if the device drive program has been installed properly. • Can be an OS problem. Try reinstalling the Windows OS program.
The system doesn't read the disc.	• See if the system detects the drive. • Make sure you use the types of discs that are supported by the drive. • See if the LED turns into green. • Make sure you inserted the disc with the label facing up. • Make sure you are using the right program for disc playback. • See if the disc is clean. • See if any congealing has occurred. • Make sure the region code of the drive matches the disc number.

You can download the user manual and the related informations of software at the web site of our customer support as below.

URL : <http://www.samsung-ODD.com>

- User Manual Download : Support > Download center > Web User Manual or User Manual

- TruDirect Manual : Information > Software Quick Manual

- Recording Software : Information > Flash Manual > Recording Software

- TruDirect Software Download : Support > Download Center > Software

Technical Specifications

Category			SH-S222L(TS-H662L)	
DISC	Usable Discs		DVD Writer	
			DVD : DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-ROM, DVD-Video, DVD+R (Dual), DVD-R (Dual), LightScribe DVD+R, DVD-RW, CD : CD-ROM, CD-R, CD-RW, CD-DA, CD-E(G), CD-MIDI, CD-TEXT, CD-ROM XA, Mixed Mode CD CD-I, CD-I Bridge (Photo-CD, Video-CD), Multisession CD (Photo-CD, CD-EXTRA, Portoria), LightScribe CD-R.	
			Disc Diameter 4.72 Inch or 3.15 Inch (120mm or 80mm)	
		Interface Support	Interface Port PATA	
		Burst Transfer Rate	66.6MB/s (UDMA4)	
Access time (Random)		CD-ROM	110ms (Random)	
		DVD-ROM	130ms (Random)	
Disc Labeling Time	Media Type	Setting	Titles only	
	CD Media	Best	The entire label area (including graphics)	
	DVD Media	Best	Less than 3'30" Less than 28' Less than 30'	
Data transfer rate(MAX)	Media Type		Write	Read
	DVD+R		CAV 22X	CAV 16X
	DVD+RW		ZCLV 8X	CAV 12X
	DVD+R DUAL		CAV 16X	CAV 12X
	DVD-R DUAL		CAV 12X	CAV 12X
	DVD-R		CAV 22X	CAV 16X
	DVD-RW		CLV 6X	CAV 12X
	DVD-ROM(Single)		-	CAV 16X
	DVD-ROM(Dual)		-	CAV 12X
	DVD-RAM		PCAV 12X	PCAV 12X
	CD-ROM		-	CAV 48X
	CD-R		PCAV 48X	CAV 40X
	US-RW		ZCLV 32X	CAV 40X
	HS-RW		CLV 10X	CAV 40X
	CD-RW		CLV 4X	CAV 40X
Buffer Memory	2MB			
Drive Installation	Horizontal / Vertical			
Operating Environment	Temperature	41°F ~ 122°F (5°C ~ 45°C)		
	Humidity	20% ~ 80% (RH)		
Size (Width x Height x Length)		5.34 X 1.65 X 6.69 Inch (148.2 X 42 X 170mm)		
Weight		750g		

* Note) The maximum speed depends on the writing media condition or some of user's PC environment.