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Visit the Customer Support homepage of the Samsung Electronics Optical Media Solution Division (<http://samsung.com>) to find out about the latest Samsung ODD firmwares and learn how to use them.

Select Model

TS-H292A (52X 32X 52X)

The Statement of Warranty



[Http://samsung.com](http://samsung.com)
[Http://samsung-ODD.com](http://samsung-ODD.com)

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Safety Precaution





The following are basic precautions to ensure user safety and reduce the risk of property damage. Please read this carefully and follow the precautions at all times for proper use of the device.






Warning / Caution

- Warning :** This symbol indicates explanations about extremely dangerous matters. If users ignore this symbol and handle the device the wrong way, serious injury or death could result.
- Caution :** This symbol indicates explanations about dangerous matters. If users ignore this symbol and handle the device the wrong way, damage to home or property could result.

Notational

	Failure to follow directions noted by this symbol could result in bodily harm or damage to equipment.
	Prohibited
	Important to read and understand at all times
	Do not disassemble

	Any change or modification not expressly approved by designated qualified personnel could void your authority to operate this device.
	Always make sure that the disc does not have a crack before use. If the disc has a crack (especially around the center hole), it is recommended to 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 this will eventually result in irreparable damage to the disc.
	Important to read and understand at all times.

Safety Precaution

Installation

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.



- ⌘ Do not place the drive in direct sunlight.







- ⌘ Avoid low- or high-temperature environments.



- ⌘ Avoid high-humidity environments.




Safety Precaution

While Operating

While Operating	
	<ul style="list-style-type: none">❖ Handle with caution to prevent damage from external shock.
	<ul style="list-style-type: none">❖ Do not drop the drive, and protect it from severe shocks.- It can damage the drive or cause it to malfunction.
	<ul style="list-style-type: none">❖ 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.
	<ul style="list-style-type: none">❖ Do not use cracked, distorted or damaged discs.- In particular, a disc with a crack on the inner tracks may break while in use.

Safety Precaution

Other

Other	
	<ul style="list-style-type: none">❏ Never allow food particles or foreign substances to enter the drive casing.
	<ul style="list-style-type: none">❏ To protect against the risk of fire, do not spill such liquids as alcohol and benzene on the drive.
	<ul style="list-style-type: none">❏ Do not disassemble, attempt to repair or modify the device without express approval as directed in the manual.- Arbitrary removal of the bezel may cause the disc to pop out during operation.- To reduce the risk of damage, electric shock, and fire,

Introduction

Front



1. Emergency eject 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

2. LED

Indicator Light. (GREEN: Read / Write)

3. Eject button

4. Disc compartment

the compartment opens and closes automatically when you press the Eject button

Introduction

Rear



1. Digital output terminal

You can connect a sound card or MPEG card which support Digital output terminal to your drive using this two-pin terminal.

2. Sound output terminal

You can connect a sound card to your drive using this four-pin terminal. This function is not covered in detail in this guide. Refer to the documentation supplied with your sound card.

3. Master/slave select terminal

Usually, this is a pre-set configuration as illustrated below. Verify that the setting is as illustrated. If it is not, simply remove the jumper and place it in the correct position.

4. Interface terminal

This input/output interface terminal is used to connect the 40-pin flat cable from the IDE interface to the CD-R/RW drive.

5. Power terminal

The power terminal is a four-conductor male plug.
(A : +5V DC)
(B : +12V DC)

Setup

■ Installing the CD-R/RW Drive

To install your CD-R/RW Drive in the PC, proceed as follows.



1. Make sure that the PC is powered off and disconnected from any power source.
2. If necessary, attach a horizontal bracket to both sides of the drive.
3. Remove the cover from a free expansion slot and install the CD-R/RW drive, as shown in the illustration.
 - Important: Use the fixing screws provided with purchase and make sure the screws are tightened securely. Insufficiently tightened screws may cause increased noise.
(Screws for use: M3 X 6 X 4 pieces)
 - Make sure to use the standardized screws supplied (M3 X 6).
(To use screws other than M3 X 6 may result in malfunction.)

Setup

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 on the rear of the CD-R/RW drive.

<p>A - Cut Side</p>	<p>1 +5V DC 2 Ground 3 Ground 4 +12V DC</p>

Note: An improperly connected power cable may cause trouble. Check the direction of the power connector and the incline side of the CD-R/RW drive before connecting.

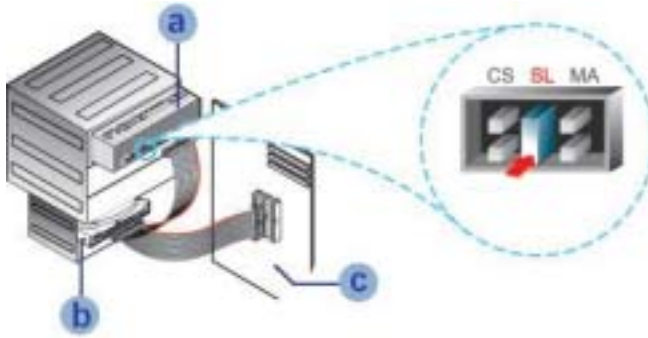
2. Connecting the E-IDE cable

Insert the IDE cable (40-pin), which is connected to the hard disk to the interface terminal. (Place the red line of the cable close to the Pin 1.)

When using one E-IDE cable

Connect the cable to the SL (Slave) of the Master/Slave Select Terminal at the rear of the CD-R/RW drive.

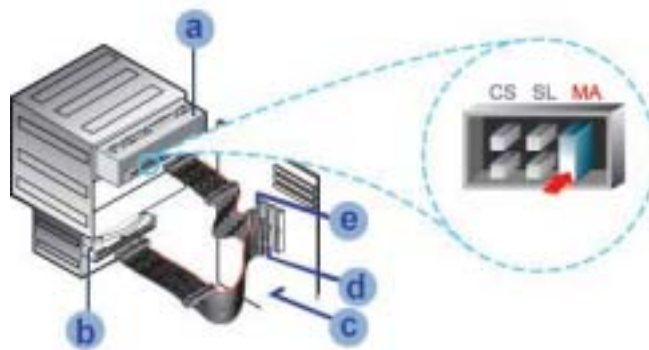
Setup



a	: Slave Drive (Choose the SL Jumper)
b	: Hard Drive
c	: MainBoard

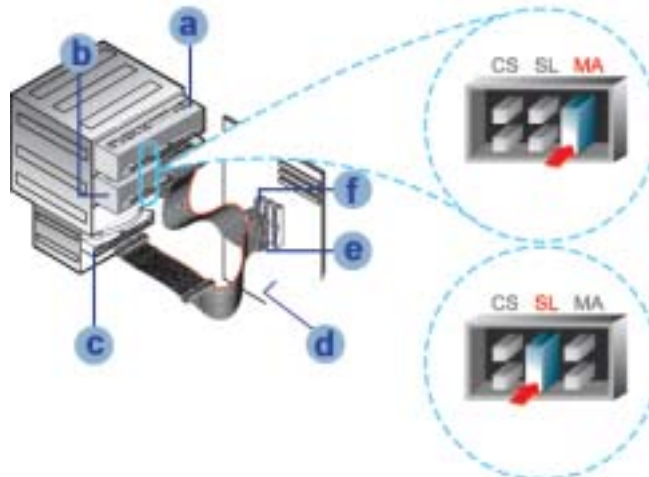
■ **When using two E-IDE cable**

- If there is only one CD-R/W drive, select MA (Master).



a	: Master Drive (Choose the MA Jumper)	b	: Hard Drive
c	: MainBoard	d	: Primary 1
e	: Secondly 1		

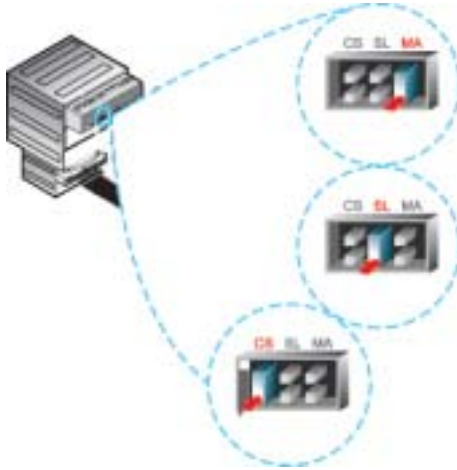
- If there is two CD-R/W drive, select MA (Master) / SL (Slave).



a	: Master Drive (Choose the MA Jumper)	b	: Slave Drive (Choose the SL Jumper)
c	: Hard Drive	d	: MainBoard
e	: Primary 1	f	: Secondly 1

Setup

3. Installing a jumper on the master/slave select terminal



Connect a jumper to the rear side of the CD-R/W.

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.)

4. Connecting the audio cable from a sound card

- ❏ Connect the 4-pin audio cable between the sound output terminal on the CD-R/RW drive and the audio input terminal on the sound card.
- ❏ For clearer sound, use a digital output terminal. (Available only for the CARD that supports digital output)
This may not be available for general sound cards.

Setup

■ Installing the CD Record Utility

To record data on a CD-R or CD-RW disc in the CD-R/RW drive, you must first install the CD record utility. For compatibility reasons, you are recommended to uninstall any existing software of the same type before installing this utility.

1. Insert the disc supplied with the CD-R/RW drive in the drive.
2. Follow the instructions displayed on the screen to install the utility.
Refer to the separate utility documentation for further details.
3. Store the utility disc in a safe place.

Setup

■ Installing the Device Driver

No additional device driver is needed for Windows 98/2000/ME/XP/NT4.0, as the default Windows device driver is used. You can check that the CD-R/RW drive has been correctly detected by Windows. To do so, proceed as follows.

1. Double-click on the **My Computer** icon on your desktop.
2. Double-click on the **Control Panel** folder.
3. Double-click on the **System** icon.
4. Click on the Device **Manager** tab.
5. Expand the CD-ROM branch.
The **SAMSUNG CD-R/RW SW - ***** device name is displayed.

The SAMSUNG device driver enables discs in the CD-R/RW drive to be read but not recorded in an MS-DOS environment; the driver is located in the D driver folder on the CD record utility disc.

Setup

Setting Up the Device Driver

Automatic Setup

The device driver is located in the Ddriver folder of the CD Record Utility disc which is provided in the package.

1. Insert the **CD Record Utility** disc into the CD-ROM drive and open the **Ddriver** folder.
2. Run the **CDSETUP.EXE** file in the **Ddriver** folder.
3. When Setup is successfully completed, click **OK** button or press the **Enter** key.
4. Reboot the computer.

Manual Setup

1. Make the **C:\SAMSUNG** directory.
2. Copy the files from the diskette to the **C:\SAMSUNG** directory.
To do so, type **COPY D:\Ddriver * . * C:\SAMSUNG** after the **C:\>** prompt and press **[Enter]**.
3. Edit the **CONFIG.SYS** file.
Add the **DEVICE=C:\SAMSUNG\SSCDROM.SYS \D:SSCD000/V** entry.

```
LAST DRIVE = Z
*****
DEVICE = C:\SAMSUNG\SSCDROM.SYS \D:SSCD000/V
```

4. Edit the **AUTOEXEC.BAT** file.
Add the **C:\SAMSUNG\MSCDEX/D:SSCD000** entry.

```
*****
C:\SAMSUNG\MSCDEX/D:SSCD000
```

5. Reboot the computer.

Using the Drive

Using the CD-R/RW Drive

To play audio or video CDs in your CD-R/RW drive, proceed as follows.



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).
5. Accessories
 - The type of accessories varies depending on product model.



User Manual & Setup Guide.



Software.



Screws.



Design and specifications are subject to change without prior notice.

Using the Drive

■ Storing and Cleaning Your Discs

To ensure a long service life for your discs and drive, follow the pre-cautions below when storing and cleaning your discs.



- 1.** Do not place a disc in direct sunlight.
- 2.** Store a disc vertically in a well-ventilated and stable location.
- 3.** Do not write or attach a label on a disc.
- 4.** Do not drop a disc or place heavy objects on it.
- 5.** Do not touch the surface of a disc; hold it by the edges.
- 6.** To clean a disc, polish lightly from the inside of the disc to the outside with a soft cotton cloth.
- 7.** Do not leave the disc compartment open when you are not using it.

Using the Drive

What is a MAGIC SPEED?

The MAGIC SPEED provides a function that user optionally chooses the disc reading speeds, **high speed (Max speed) mode** and **low noise (X32) mode**. The **low noise mode** offers the best PC environment by minimizing a driving noise.

The **Magic speed** not only functions to decrease a noise by reducing a reading speed but also gets a preventive effect of a disc breakage, which could be occurred by a high speed. Its purpose is to supply the stable PC environment to user.

Explanation of MAGIC SPEED Mode and Ways to use

1. Explanation of MAGIC SPEED Mode

- **The Maximum Speed Mode** : Set up this mode when you want to read a disc by the maximum speed which is supplied by a drive.
- **The Low Noise Mode** : Set up this mode when you want to read a disc by a stable speed, the low speed (X32).
- **The mode selected and set using the Magic Speed feature does not change when you connect the driver to a different PC. Make sure you check the settings before use.**

Caution: In case of a cracked disc, the disc would be broken if operating in the maximum speed. Therefore, it is recommended to operate in the low noise mode or to immediately make a copy and use it.

2. Ways to Use the MAGIC SPEED

- The first of all, please install the **Magic Speed** program from Samsung's homepage.
- Operate the program by clicking the right mouse button on the MAGIC SPEED **Tray Icon**.
- Select a desired mode from a program window, and click "**Setup**". The reading speed of a drive operates in a selected mode.
- Close the program window by selecting "**Close**".
At this time, the reading speed will keep operating by the changed speed unless you would change a mode and would end a program.
- It is recommended to use a "Maximum Speed Mode" when operating a Data Copy & a Disc Copy and to use a "Low Noise Mode" when operating a general operation.
- **Other Function**
Method to release an automatic operation: This program automatically operates when PC is booting. If you wish to release the automatic operation, release the selected item, Automatic Operation in the Tray Icon menu.

Place to download a MAGIC SPEED

- Samsung's Customer Service Homepage ([URL:www.samsungODD.com](http://www.samsungODD.com))
 - Select a Firmware > MAGIC SPEED.

Using the Drive

■ Upgrading the Firmware Flash Memory

The product firmware can be upgraded by downloading the updated file from the following Web site:
[Http://samsung-odd.com](http://samsung-odd.com)
[Http://samsung.com](http://samsung.com)

Using the Drive

■ System Requirements

Before you install the CD-R/RW drive, we strongly recommend that you check that your setup meets the system requirements listed below.

Item	Description
Computer	Intel Pentium II 400MHz(or higher), 128 MB of RAM (or higher) with an 40pin IDE interface for Ultra DMA.
Disk space	At least twice as much free space as the amount of data to be writable.
Windows version	Windows 98/2000/ME/XP/NT4.0 (or higher)

Using the Drive

- ▣ Hard Drive
- ▣ Network Drive
- ▣ CD-ROM Drive

If you have any problems recording via your CD-R/RW drive, follow the appropriate instructions below for the source that you are using.

▣ Hard Drive

1. Check whether the source file is corrupted.
2. Optimize the hard disk by using the Windows defragmenter feature:
START / PROGRAMS / ACCESSORIES / SYSTEM TOOLS / DISC DEFRAGMENTER
3. Decompress the hard disk if it is compressed.
4. Make sure that the space available on the hard disk is at least twice the size of the largest file to be recorded on the disc.
5. If you wish to record more than 1000 small files:
 - First create an image file and copy the image file to the disc
 - Choose the low record speed
 - Compress small files and then record them

▣ Network Drive

1. Copy the network drive contents to the hard disk and then from the hard disk to the CD-R/RW drive.

▣ CD-ROM Drive

1. Clean the source CD, if necessary.
2. Create an image file and then copy the image file to the CD-R/RW drive.
3. Check the CD-ROM drive record speed.
There are two recording methods :
 - Low-speed (file by file)
 - High-speed (transfer of an image file from the hard disk)
4. If the transfer speed of the CD-ROM drive is slower than the record speed, reduce the record speed.

Using the Drive

- ▶ Caution with errors
- ▶ Term Description
- ▶ Recommended Disc Types

■ Caution with errors

Every CD-R or CD-RW drive records data by applying recording laser onto a CD. If the CD is damaged or recording data is not possible, you need to remove the following causes of the error before using the CD.

- ▶ It is recommended to set a CD-R or CD-RW drive as follows.
- 1. Do not work on a multi-tasking environment and remove screen savers.**
 - ▶ If you work on a multi-tasking environment while the CD-RW drive is recording/deleting data, Buffer Under-Run may occur.
- 2. Do not allow any external access to the Host PC while recording data.**
 - ▶ If another user accesses your printer through a network while you are recording data, errors may occur.
- 3. Remove the Auto-Run function of the CD.**
 - ▶ If you insert a CD that has the Auto-Run function to a drive connected to a PC while recording/deleting data, this may cause errors.
 - ▶ **How to cancel (select) the Auto-Run function**
Cancel (Select) the Auto-Run function in [Start > Setting > Control Panel System > Device Manager > CD-ROM Setting]
- 4. Use image files when you record many small files.**
 - ▶ If you use a lot of small size files for recording, this may reduce the transaction rate of the PC. Although Superlink function is often run, the recording quality may become low.
 - ▶ If you copy a CD from another, you do not require making available space in the hard disk. However, when you use image files, you need to copy them on the hard disk first and then copy to a CD. In this case, you need to ensure maximum 700MB of available space in the hard disk for reliable recording process.
- 5. Use an E-IDE cable, which has the specified length (46cm).**
 - ▶ Using E-IDE cables longer than 46cm may cause errors during data transaction.
- 6. Use only one recording software program.**
 - ▶ To install a software program for recording, uninstall any other types or versions of recording software programs first and then reboot the computer.
 - ▶ Make sure you use the recording software CD (Nero Burning Rom / Roxio Easy CD Creator) provided by us. Using our software program with others may cause errors in recording.
- 7. Recording quality may be affected if you record using media (CD-R/RW blank discs) that are not registered with the Firmware. Therefore, please use the recommended brand of discs and, for important data backup, make sure you check the quality after recording. (Samsung is not responsible for any data lost during a backup.)**
 - ▶ Any media that are not on the list of supported media will be supported through our regular Firmware upgrades.

■ Term Description

- 1. What is Buffer Under-Run?**
 - ▶ Every CD-R or CD-RW drive records the data that the Host PC wants to record until the data flow ends. However, if the buffer becomes empty temporarily, this may cause errors in recording data.
- 2. What is Auto-Run?**
 - ▶ If inserting a CD into a drive, the operating system executes the Autorun.inf file of the CD automatically.
- 3. What is Superlink?**
 - ▶ This function is to check the buffer to see if there are data while recording. If the buffer is empty, it waits at the address and then restarts recording after the buffer is full. You can avoid Buffer Under-Run problems by applying the above-mentioned principle.

Using the Drive

■ Recommended Disc Types

CD-R MCC, RITEK, CMC, SKC, BEALL, PRODISK, MAXELL, ACER, MPO, FUJI, TAIYO YUDEN, TDK, GIGA, PLASMON

CD-RW CD-RW : RICOH , RITEK , MCC , PRODISK , SKC , CMC, ACER
(1X - 4X)

H/S-RW : RICOH , CMC , RITEK , ACER , PRODISK , SKC
(10X)

U/S RW : MCC , RITEK, MITSUBISHI
(24X, 32X)



General DMA Installation Guide Windows 98/Me

Important!

Please read the entire DMA installation guide before installing your CD-R/RW drive.

About DMA Installation

For stable writing performance at high speeds, Installation of DMA transfer mode for E-IDE/ATAPI interface is strongly recommended. We recommend DMA mode for fast writing.

DMA Setting

Before you install your CD-R/RW drive, we recommend to set DMA to enabled on your PC system. See the following procedure to set DMA transfer mode in windows operating system.
(Windows 98/ME)

- | | |
|--|--|
| + Click on START | + Select your CD-R/RW drive |
| + Click on Settings | + Click on the Properties button |
| + Select Control Panel | + Click on the Settings tab |
| + Select the System Icon | + Check the DMA checkbox to enables DMA. |
| + Select the Device Manager panel in System Properties | + Click OK |
| + Expand the CD-ROM icon | + Restart your PC |

Windows 2000/XP

Select the DMA mode by selecting

[Start > Setting > Control Panel > System > Device Manager > IDEATA/ATAPI Controller > Default/Assistant IDE Channel Advanced Information]

Troubleshootin

Problem	Meaning / Solution
<p>The CD-R/RW drive is not detected by the computer.</p> <p>After installing the CD-R/RW drive, the PC gets slower.</p>	Check that the power, audio and IDE cables are correctly connected to the computer.
	Change the IDE cable and reconnect it to the computer. Preferably, connect a second IDE cable to the CD-R/RW drive in master mode.
	Check the position of the jumper in the master/slave select terminal.
The CD-R/RW drive is not recognized by MS-DOS.	Reinstall the device driver or update it with the latest version by downloading it from the Samsung Web site. - Http://samsung-ODD.com - Http://samsung.com
The CD-R/RW drive is not detected by Windows.	This case may occur when there is a Windows installation problem; reinstall Windows.
<p>No sound is heard from an audio CD.</p>	Check whether the audio cable is correctly connected to the sound output terminal on the CD-R/RW drive and the sound card CD-IN terminal.
	Check that the sound card is operational.
	Adjust the volume control.
	If you have installed the appropriate player, such as Microsoft Windows Media Player, you can adjust the volume using the headphone volume control on the drive front panel.
A CD is not read or is read too slowly.	Check whether the CD is of good quality and clean it, if necessary.
<p>The disc compartment will not open.</p>	Check that the power cable is correctly connected.
	Power off and disconnect the PC. Insert a pin or unfolded paper clip in the emergency hole and push firmly until the disc compartment opens.
<p>When the MPEG software plays a Video CD, the pictures are not regular and the running speed is too slow.</p>	Adjust the size of the replay screen.
	After checking the display resolution, adjust it, if necessary.
<p>The Disc is not in message is displayed even though a disc has been inserted.</p>	The computer may not recognize the disc if you start playback too quickly after inserting the disc. Open and close the disc compartment and try again.
	Clean the disc and try again.
The CD-R/RW drive is not detected after it is connected to a sound card.	The interface mode of the sound card is AT-BUS. You must therefore connect the CD-R/RW drive to the IDE port on the PC mother board, rather than to the sound card, or install an E-IDE compatible sound card.
IN CD has the Formatted Disc Eject function.	Right-click the mouse on TRAY ICON (right side of the menu bar at the bottom of the monitor) and then select "Eject" to take the CD out. Select the drive where the disc is inserted from Windows Explorer. Right-click the mouse and select "Eject" to take the CD out.
<p>When recording NERO or Easy CD Creator, it will be recorded not on a CD but a form of image file.</p>	This seems to occur when you select the recording function as the system selects "Image Recorder" instead of TS-H292A. In this case, select a recorder from the menu items at the upper part of NERO or Easy CD Creator and then select TS-H292A from the Recorder Selection window.
	When installing the recording software, try not to install the software before the ROM drive as this makes the Image Recorder selected.
The Recorder cannot recognize the disc.	Use the firmware automatic upgrade function available at the ODD service website to download the newest firmware and then reinstall the recording software which is included in the bundle. - Http://samsung-ODD.com - Http://samsung.com
<p>The UDMA setting does not work.</p>	The UDMA mode was enabled both in the BIOS setup and through the Control Panel, but the drive still operates only in PIO mode.
	Delete the secondary port in the Control Panel, reboot the system and re-enable the UDMA mode.

Specifications



SAMSUNG continually strives to improve its products. Both the design specifications and these user instructions are thus subject to change without notice.

Technical Specifications

ITEM		TS-H292A		
		CD-RW		
DISC	Disc types supported in read mode	CD-DA(Audio), CD-ROM, CD-ROM XA, CD-Plus, CD-Extra, Photo-CD(Single, Multi-session), Video CD ready, Enhanced CD, CD-I/FMV, CD-R, CD-RW, CD-TEXT		
	Erasing disc types	CD-RW		
	Disc diameter	120 mm or 80 mm		
DRIVE PERFORMANCE	Data transfer rate (MAX)	Recording	CD-R:	7800 KB/sec (52X) 7200 KB/sec (48X), 6000 KB/sec (40X), 4800 KB/sec (32X), 3600 KB/sec (24X), 2400 KB/sec (16X) 1200 KB/sec (8X), 600 KB/sec (4X),
			CD-RW :	4800 KB/sec (32X) 3600 KB/sec (24X) 1500 KB/sec (10X) 600 KB/sec (4X)
	Access time (Random)	Reading	CD-ROM:	CAV 52X
			CD-R:	CAV 40X
	Data Buffer	Laser	CD-RW:	CAV 40X
			PIO Mode 4:16.6MB/sec Multiword DMA mode 2 : 16.6MB/sec UDMA mode 2 : 33.3MB/sec	
	Access time (Random)		100ms (Typical)	
	Data Buffer		2MB	
	Laser		Semiconductor laser	
	Slide mechanism		Stepping motor	
Spindle motor		Brushless DC motor		
Load mechanism		Tray. DC motor (Soft Eject). Horizontal/Vertical.		
ERROR RATE		Mode 1:10 ⁻¹² , Mode 2:10 ⁻⁹		
FRONT PANEL	Eject button	Auto eject or Auto inject		
	LED (GREEN)	Play / Read / Write(GREEN), Operation LED		
REAR PANEL	Required power	+5V : 1.5 A (RMS), +12V : 1.5 A (RMS)		
	Interface connector	ATAPI BUS (E-IDE)		
	Audio output	Line out 0.75±20%(Vrms) 47Kohm		
OPERATING ENVIRONMENT	Jumper block	Molex 70203 or other compatible models		
	Operations	Temperature: 5~45°C Humidity: 10~80%		
	Storage	Temperature: -25~60°C Humidity: 10~90%		
GENERAL	Dimensions	148.2 (W) x 42 (H) x 184 (D) mm (including bezel)		
	Net weight	750 g		
RELIABILITY	MTBF	125,000 POH(Duty 20%)		

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