



SH-D162C (TS-H352C)

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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. Indicator Light. (When it is green, a disc is being read.)
- 3. Eject button.
- 4. Disc compartment. (the compartment opens and closes automatically when you press the Eject button)



Introduction

Rear



- 1. Two-pin digital audio output terminal for use with a sound or MPEG card supporting digital audio features.
- 2. Four-pin sound output terminal for use with a sound card. (refer to the sound card documentation for further details)
- **3.** Master/slave select terminal.
- 4. 40pin host IDE interface connector.
- 5. 4pin power terminal. (A : +5V DC) (B : +12V DC)



Installing the DVD-ROM Drive



- \P . 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.
- Remove the cover from a free expansion slot and install the DVD-ROM drive, as shown in the illustration.



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 Optical drive drive.



Note: An improperly connected power cable may cause trouble. Check the direction of the power connector and the incline S-IDE of the Optical drive before connecting.

2. Connecting the E-IDE cable

Insert the E-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 Optical drive.



- When using two E-IDE cable
- If there is only one Optical drive, select MA (Master).





Figure 1 If there is two Optical drive, select MA (Master) / SL (Slave).



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





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Setup

Connect a jumper to the rear S-IDE of the Optical drive.

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

Sonnect the 4-pin audio cable between the sound output terminal on the Optical 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.

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Setup

Installing the Device Driver

This Device Driver is an installation driver that can detect ODD (Optical Disc Drive) products in DOS mode. It provides only the reading function in Dos mode. (For recording, it is recommend not to install the Device Driver designed for DOS mode)

The Device Driver for DOS mode is included in the Ddriver or DOS Driver folder of the disc enclosed with the product that you purchased.

For Windows98/2000/ME/XP or higher version that uses a device driver provided by Windows, there is no need to set up an extra device driver.

Refer to the steps below to see if Windows detects the drive.

- 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 Installing the Device Driver device name is displayed.



Setting Up the Device Driver

X The device driver is located in the Ddriver folder of the User's Guide disc with is provided in the package. \mathcal{S} This device driver is to recognize a DVD-ROM drive on Dos mode.

 \mathcal{S} This driver should be applied for DOS mode user to install on Windows 98 or Windows ME only.

> Automatic Setup

- 1. Insert the User's Guide 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 User's Guide disc to the C:\SAMSUNG directory.

To do so, type COPY D:\Ddriver * . * C:\SAMSUNG after the C:\prompt and press [Enter].

Edit the CONFIG.SYS file. Add the DEVICE=C:\SAMSUNG\SSCDROM.SYS \D:SSCD000/V entry. З.

LAST DRIVE - 2 DEVICE - C /SAMSUNG/SSCEROM SYSTE: SSCEROV

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



5. Reboot the computer.

Using the DVD-ROM Drive

To play audio or video CDs and / or DVDs in your DVD-ROM 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.
- Insert the disc (CD/DVD) 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/DVD).
- **5**. Accessories
 - The type of accessories varies depending on product model.







User Manual & Setup Guide.

Playing Video CDs Set up and run the SOFT MPEG program.



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

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.
- $\ensuremath{{7}}$. Do not leave the disc compartment open when you are not using it.



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.com

System Requirements

Before you install the DVD-ROM drive, we strongly recommend that you check that your setup meets the system requirements listed below.

Item	Description
Computer	Intel Pentium II (or higher), 128 MB of RAM (or higher) with an IDE interface
Disk space	100 MB minimum
Windows version	Windows 98 / 2000 / ME / XP Windows (or higher)

DVD Region Protection Coding (RPC):

The RPC feature is supported on DVD players and is used with DVD-video discs (such as movies). Currently, the motionpicture industry has divided the worldinto different regions or zones thatcorrespond to the regional markets intowhich the motion picture industry releasesmovies. Simply put, RPC codes are placedon movies marketed throughout the world, based on the region of the world inwhich they are being sold. These RPCcodes help control and prevent piratingof new movies into other motion pictureregions prior to their true releasedates within those markets.

The DVD-ROM drive supports RPCphase II. In the RPC-2 mode, the localcode can be changed by users. RPC-2is selected by default for the DVD-ROM drive. You can change the region code up tofive times via an MPEG application.

Please contact your dealer or local SAMSUNG representative if you wish tochange the local code more than fivetimes.

Troubleshootin

Problem	Meaning / Solution			
The DVD-ROM drive is not detected by the computer.	Check that the power, audio and IDE cables are correctly connected to the computer.			
After installing the DVD-ROM drive, the PC gets slower.	Change the IDE cable and reconnect it to the computer. Preferably, connect a second IDE cable to the DVD-ROM drive in master mode.			
	Check the position of the jumper in the master/slave select terminal.			
The DVD-ROM 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 DVD-ROM drive is not detected by Windows.	This case may occur when there is a Windows installation problem; reinstall Windows.			
No sound is heard from an audio CD.	Check whether the audio cable is correctly connected to the sound output terminal on the DVD-ROM drive and the sound card CD-IN terminal.			
	Check that the sound card is operational.			
	Adjust the volume control of windows.			
A CD is not read or is read too slowly.	Check whether the CD is of good quality and clean it, if necessary.			
The disc compartment will	Check that the power cable is correctly connected.			
not open.	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.			
When the MPEG software plays a Video CD, the pictures	Adjust the size of the replay screen.			
are not regular and the running speed is too slow.	After checking the display resolution, adjust it, if necessary.			
The Disc is not in message is displayed even though a disc has been inserted.	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 DVD-ROM 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 DVD-ROM drive to the IDE port on the PC mother board, rather than to the sound card, or install an IDE compatible sound card.			

Specifications

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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					
Model Name	SH-D162C(TS-H352C)				
ITEM	DVD		CD		
Disc					
Disc types supported in read mode	CD-DA(Audio), CD-ROM, CD-R, CD-RW, Photo-CD(Single, Multi-session), Video CD ready, Enhanced CD, CD-I/FMV, CD-TEXT,CD-Plus, DVD-ROM, DVD-VIDEO, DVD+R, DVD-R, DVD+RW, DVD-RW, DVD-RAM				
Disc diameter	120mm or 80mm				
DRIVE PERFORMANCE					
Data transfer rate					
Sustained :	Max. 21,600KB/sec(16X)		Max. 7,200KB/sec (48X)		
PIO mode 4 : 16.6MB/sec					
Multiword DMA mode 2 :	16.6MB/sec				
UDMA mode 2 :	33MB/sec				
ACCESS TIME (typical)	100ms				
Data Buffer capacity	512KB				
Laser	Semiconductor laser				
Slide mechanism	Stepping motor, Sensorless				
Spindle motor	Brushless motor				
Load mechanism	Tray. DC motor (Soft Eject). Horizontal/Vertical.				
ERROR RATE					
ERROR RATE	10 ⁻¹⁵		Mode 1:10 $^{\text{-12}}$, Mode 2:10 $^{\text{-9}}$		
FRONT PANEL					
Eject button	Auto eject or Auto inject				
Indicator(LED)	BUSY				
REAR PANEL					
Required power	1.5A (rms)				
Interface connector	ΑΤΑΡΙ				
Audio output	Line out 0.7V ± 20%(rms) : 47Kohm				
Jumper block	Molex 70203 or other compatible models				
OPERATING ENVIRONMENT					
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					