SONY®

DVD+RW Drive DRU110A
Quick Start Guide

About warranty and disclaimer

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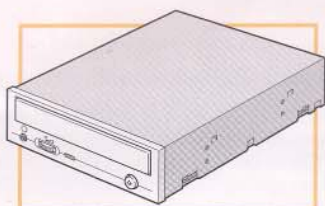
Features

●DVD+RW

The drive is a super-combination drive that integrates DVD+RW and CD-RW capabilities. The DVD+RW disk prouds of its large 4.7 GB disk capacity and is ideal for backing up hard disk drives. With DRU110A, you can speed up writing even a large amount of data into a DVD+RW disc.

●The DRU110A features buffer under-run error protection technology

A buffer under-run error protection technology incorporated ensures stable writing operation even under circumstances where buffer under-run errors tend to occur with conventional drives.

STEP 1 Confirm package contents

Before installing the drive, make sure that all of the following accessories are included in the package.

DRU110A drive

- Software CD-ROM

Mounting screws (4)

- DVD+RW blank disc

- Quick Start Guide (This manual)
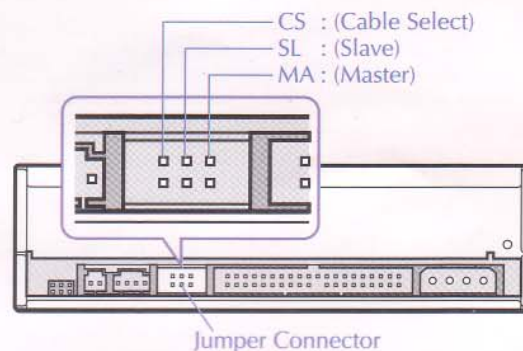- Users Guide
- Warranty Card

●If any of the above accessories are missing, please contact your place of purchase.

STEP 2 Installing the Drive

1. Turn off the computer.

2. Jumper Set Up

Before the installation, set the jumper on 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 drive must be set in a unique way.
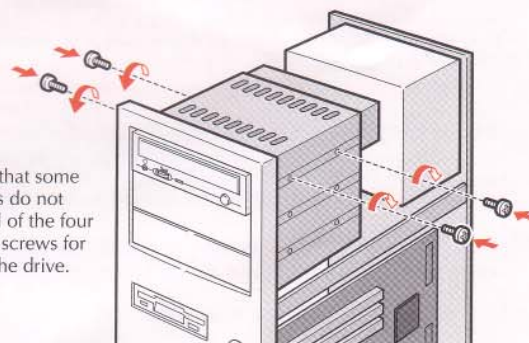

CS : (Cable Select)
SL : (Slave)
MA : (Master)

Jumper Connector

Master/Slave setting is determined by a jumper on the Jumper Connector. The following table shows the possible jumper settings.

Name	Function	
MA (Master)	Drive set as Master (factory default)	
SL (Slave)	Drive set as Slave	
CS (Cable Select)	Drive mode set by CSEL on the host IDE interface	

3. Mount the drive.

Insert the drive unit into the 5-inch bay horizontally, and secure it using the provided screws.
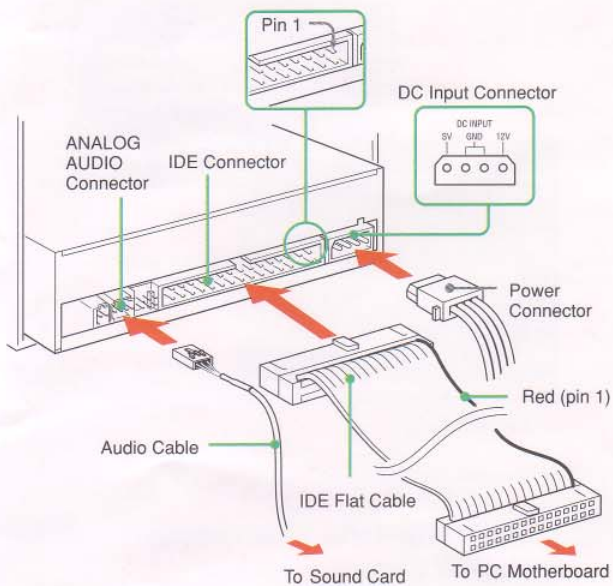

*Be aware that some computers do not require all of the four mounting screws for securing the drive.

4. Connect the cables

- Connect an unused power connector from the PC power supply to the DC input connector on the drive.
- Connect the IDE cable to the IDE connector on the drive.
- Connect the audio cable to the Analog Audio Connector on the drive, and the audio input conenctor or sound card (if present) on your PC.

For more installation, please refer to the User's Manual included on the software CD-ROM.
For information on installing STEP 4 on the next page.

Pin 1

DC Input Connector

DC INPUT
5V GND 12V

ANALOG
AUDIO
Connector

IDE Connector

Power
Connector

Red (pin 1)

Audio Cable

IDE Flat Cable

To Sound Card   To PC Motherboard

Caution
- The red side of the IDE cable indicates the pin number 1 conductor. Verify that the pin number 1 side is connected to pin number 1 at the motherboard end.
- The power connector must be inserted with the beveled side upwards.

Tips
Before installing the drive, write down its serial number on the right frame, or attach the serial number label there. The serial number will be needed if you have to contact customer service.

Drive Serial No.

5. Replace the computer cover.

Connect the power cable and turn on the computer. If the drive is not recognized on the computer, check to see if the port is enabled in the BIOS. For more detailed explanation, refer to the manual of the computer.

6. Device Drivers

The installation of any special device drivers are not required. To make sure that the drive is recognized, double-click My Computer, and confirm that the CD-ROM icon has been added.
In order to ensure normal drive operation or if the drive is not recognized by your computer, please check the following:

In order to ensure normal drive operation
■ **For Windows Me/98SE Users**
- The drive is displayed in [control panels] - [system] - [device manager] - [CD-ROM]
  32-bit is displayed in [control panels] - [system] - [performance]

■ **For Windows 2000 (Professional) Users**
- The drive is displayed in [control panels] - [system] - [hardware] - [device manager]

If the drive is not recognized by your computer
■ **For Windows Me/98SE Users**
- If a [!] indicator is displayed on the IDE controller in [control panels] - [system] -[devices manager]-[hard disk controller], you will need to contact your PC manufacturer or the motherboard manufacturer and get the appropriate IDE controller driver.

■ **For Windows 2000 (Professional) Users**
- If a [!] indicator is displayed on the IDE controller in [control panels] - [system] - [hardware] - [device manager]
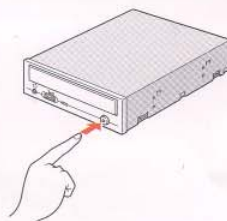
You will need to contact your PC manufacturer or the motherboard manufacturer and get the appropriate E-IDE controller driver.

STEP 3 How to Use the Drive

The basic procedures for using the drive are listed below.

Load the disc

1. Press the eject button.

2. Place the disc on the disc tray.
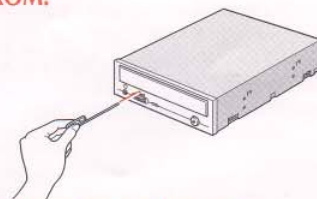

3. Load the disc by pressing the eject button or by lightly pushing in the disc tray.

Emergency Eject

In an emergency such as drive failure or power outage, you can eject the CD manually.
See the "Emergency Eject" section in the User's Guide on the bundled software CD-ROM.

* Emergency ejection does not mean "reset" of the drive.

Tips
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.
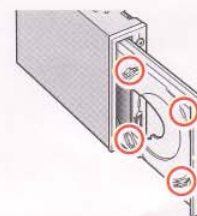
Caution
-Never use this method to remove CDs from the drive except for emergency purposes.
-The manual method mentioned here is used only for emergency purposes. Using the manual method for any other purpose may result in malfunctioning of the drive.

Using the Drive in a Vertical Position

1. Locate the four tabs on the disc tray.

Tips
Recommended mounting direction :
Eject button at top.

Caution
After ejecting the disc, load the tray inside the unit quickly. When the tray is in the ejected position, dust and other debris will enter, possibly causing read and write errors, or drive failure.

The Drive cannot write to 8-cm CDs, and cannot write to or read from irregularly shaped CD-R/RWs (business card-sized, heart-shaped, star-shaped, etc.) (* The Drive cannot use such media even with the use of an adapter.)

In order to write to CD-R/CD-RW/DVD+RW media or play DVD, you must install software programs from the Software CD-ROM bundled with the drive. Before the installation, please read the HTML-based* User's Manual available on the software CD-ROM.

* To view the User Manual, use the following browsers:
- Microsoft Internet Explorer 4 or later   - Netscape Communicator 4 or later

The software CD-ROM contains the following applications:

<Applications>
- WIN DVD:
DVD playback application (Region code setting is possible up to five times.)

*You must enter a serial number at the time of software installation.
You can find your serial number on a label located on the case of the installation disc.

WIN DVD serial number:

- MyDVD:
* MyDVD cannot be used in Windows 95/NT 4.0.
For Windows 98, it can be used in the Second Edition only.

It is DVD-Video authoring software.
For information on MyDVD, see the following

- BHA Installer:
Installs B's Recorder GOLD/CLIP.
(B's Recorder GOLD)
Writes information onto CD-R/CD-RW/DVD+RW media.
(B's CLip)
Writes information onto CD-RW/DVD+RW media with an easy drag and drop interface.

*When installing B's Recorder GOLD or B's CLiP, you must enter its "serial number." The serial number is printed on surface of install CD.

BHA serial number:

- B's Recorder Gold Documentation:
Shows an instruction manual in PDF format.
- B's CLip Documentation:
Shows an instruction manual in PDF format.
- Adobe Acrobat Reader:
Software for viewing PDF-format files.

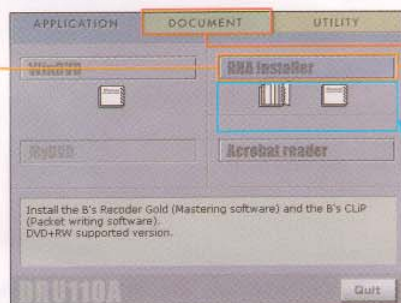For information on how to operate each software application, see the documentation of the software.

Starting the Software CD-ROM Disc

Caution Set up the drive first before installing the applications.

1. Insert the software CD-ROM into your PC.

The Set up menu screen appears, as follows:

When you click on document...

When you click [BHA Installer]...

Documentation is displayed in PDF format.
(Be sure to install Acrobat Reader before viewing the documentation.)

Clicking [BHA Installer] displays the following screen.

Click to start installation.

Clicking [Document] displays the following screen.

- User's Manual:
Shows a user's manual in HTML format.

2. Click on the item you want to install or display.

Then follow the instructions displayed on the screen of the selected item.

- Transfer Rate Utility:
When you have changed the drive's transfer rate using this too, be sure to restart the PC.
* If this drive does not operate in Ultra DMA mode, use this tool to switch into multi-word DMA.
- Introduce Movies:
introduces the MPEG2-format movies by showing screen shots.

3. Click on the icon of the software application to be installed.

Follow the instructions on the Setup Wizard window to complete the installation.

* When installing B's Recorder GOLD or B's CLiP, you must enter its "serial number." The serial number is printed on surface of install CD.
* You must enter a serial number at the time of WinDVD software installation.
You can find your serial number on a label located on the case of installation disc.
* When you are going to use the drive with Windows 2000, be sure to perform installation using Administrator.

4. When the installation is complete, restart the PC.

If the Set up menu screen does not appear

Use the following steps.
1. From the [Control Panel], double click on the [Add/Remove Applications].
2. Click on the [Install button].
The [Install from Floppy Disc or CD-ROM] screen appears.
3. Click on the [Next] button.
The [Run Installation Program] screen appears.
4. Follow the instructions displayed on the screen, and click on the [OK] button.
The Set up menu screen appears.

Troubleshooting

◆When the drive is not recognized

●When the computer boots up, the BIOS can recognize the primary (master/slave) hard disk drive, but it cannot recognize all devices connected to the secondary hard disk drive. Why?

1. Is the power cable correctly connected?
2. Is the IDE interface cable correctly connected? (Make sure it is completely plugged in.)
3. Is the setup correct? Is the position of the (master/slave) jumper pin (JP) correctly set? (* Check to see whether it is inserted into CSEL.)
4. On the BIOS, is the secondary disabled? (* For detailed information on BIOS settings, please contact the PC's manufacturer.)
5. Is the secondary's interface cable too long? (Has it exceeded the ATAPI specification of approximately 18 inches (about 45 cm) ?)
6. Is the IDE cable's pins twisted? (* Also make sure there is no reversed insertion.)

●When using the DRU110A with Windows 98SE, Me, and Windows 2000 (Professional) do I need to install any device driver?

No DRU110A device driver is required. Because Windows 98SE, Me and Windows 2000 has the ATAPI driver built into the operating system, they can recognize the DRU110A as a CD-ROM drive.

●While the DRU110A cannot be recognized by the BIOS, it is recognized by the operating system. Does it mean the drive is faulty?

No, the drive is not faulty. Even if the DRU110A cannot be recognized by the BIOS, as long as it is recognized by the operating system, there is no problem.

●When writing on the DRU110A that is connected to the computer, do I have to disable the computer's resume capability?

Yes, you do. When using the DRU110A, be sure to disable the resume capability before use. Unless you disable it, a write error will occur.

◆Points to keep in mind when writin

●Does the DRU110A support CD-TEXT write?

The DRU110A supports data write using the CD-TEXT format.

●When I try to write Audio CD from the CD-ROM drive to the DRU110A drive directly, I get an error message and write to Audio CD is denied. (CD-ROM data can be written.)

This may be because the CD-ROM drive does not support the digital signals on audio CDs. In this case, create a Wave file using the DRU110A drive and then try writing again. (*:For instructions of creating Wave files, see the documentation of B's Recorder GOLD.)

●Why I fail in writing?

Use the media recommended for the Drive.

●Does the drive support writing to DVD-R/DVD-RW/DVD+R media?

Writing to such media is not supported. Use the media recommended for the Drive.

●Which manufacturer's media products have been tested for successful operation?

CD-R: SONY, Ricoh, Taiyo Yuden, Mitsui Chemicals, Mitsubishi Chemical, Maxell
CD-RW: SONY, Ricoh, Mitsubishi Chemical
High Speed: SONY, Ricoh, Mitsubishi Chemical
DVD+RW: SONY, Ricoh, Mitsubishi Chemical
Even when you use tested media, writing may fail because the medium's manufacturer has changed the material it uses or because of some other reason.
In such a case, try another type of tested media.

●Does the drive support writing to 8-cm CD-R or business card-sized CD-R media?

Writing to such media is not supported.
Also for reading from media of special shapes such as business card-sized or heart-shaped media, proper operation is not guaranteed.

●After installation of writing software, inserting a blank disc medium displays "Audio CD."

*The hard disk controller driver may not be compatible with the CD-RW drive.
*Update your hard disk controller to the latest version and try again. For the driver, consult the manufacturer of your personal computer, mother board, and chip set.
*The hard disk controller driver can be checked by selecting [Control Panel] - [System] - [Device Manager].

●Attempting to write to a disc hangs up or restarts the computer.

*If writing software from other manufacturer has been installed on your system, uninstall that software.
*This phenomenon may occur on a Compaq PC with Compaq's utility (ex., Insight Manager) installed. In this case, it is advised to bring the computer system into the state of having only an operating system installed.

◆About DVD

●When a DVD-Video is played, noise comes out together with its recorded sound. Or, the sound is output on one channel only.

Change your sound card driver. For information on the driver, consult the manufacturer of your sound card.

●When playing a DVD-Video disc, sound does not come out from the headphone jack located on the front side of the drive.

When playing a DVD-Video disc, sound is not output to the headphone jack. This is not a breakdown. This applies not only to our drive but also to DVD-ROM drives of other makes.

●When a DVD-Video disc is played, images move like frame-by-frame advance. Or, the image motion appears jerky. Or, the playback ends in the middle.

Check the following points.
*Has your video card been tested for proper operation with WinDVD? For information, visit the site of InterVideo Japan.
*Update the video card driver. For information on the driver, consult the manufacturer of your video card.
*Update the hard disk controller driver.
*If the drive's DMA is not set to ON, turn it ON.
To determine whether DMA is ON or OFF, double-click [Control Panel] - [System] - [Device Manager] - CD-ROM, then double-click DRU110A, and open the [Setup] tab . If no DMA option is displayed, check the utility of your hard disk controller driver.

*DVD-R/RW (DVD minus R/RW) disc media cannot be used.

\<Notes on Using\>
MyDVD3.0
A capacity meter is displayed at the lower right of the authoring screen. However, as you keep adding materials, "Over" may be displayed. Performing the write in this state will make the disk stop being normal, thus making its playback on the player impossible. Therefore, perform the write after making that the capacity is appropriate, thus not allowing the "Over" message to appear.
(If "Over" does appear, adjust the capacity to an appropriate level by deleting/changing the materials and so on.)
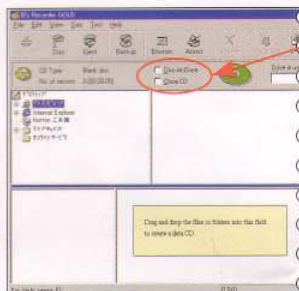

DVD+RW disk:
Represented with 1000=1k. The disk's capacity of 4,700,372,992 bytes, however, is about 4.37GB based on 1024=1k. Some portions are allotted to menus, etc. and, therefore, not all of 4.7GB can be used for recording materials.

74-minute CD-R/RW disk:
Up to about 650MB.

\<Notes on Using\>
B's Recorder GOLD 3.0
The DVD+RW disk is different from the CD-R/RW disk in that the former does not have the concept of multi-session tracks. Performing the write after activating the "Disk at once" and "Close the CD" check boxes may not result in adding records. Therefore, when adding records to the DVD+RW disk, do not activate the check boxes.

"Disk at once" check box
"Close the CD" check box

For further information or inquiries, e-mail to:
①Sonic Solutions
 \<http://mydvd.sonic.com/\>
②B.H.A.
 \<http://bhacorp.com/\>

*B's CLip does not support writing to the CD-R
For information on troubleshooting, see the documentation on the CD-ROM or the instruction manual in book form supplied with the drive as well.

WinDVD3.0	B's Recorde GOLD/CLiP	MyDVD	SONY
South Asia including China and Taiwan E-MAIL : support@intervideo.com.tw TEL : 886-2-8712-6128	**For support on B's software** URL : http://bhacorp.com/ The support becomes a correspondence of only English.	**Sonic Solutions** URL : http://mydvd.sonic.com/	See "Product and Support Information " on the User's Guide.