# ARS-2030A/2035A/2037P Copy Controller

## User's Manual

—— **Ver: 1.3** ——

**Attention:**

Wait over 5 seconds to power on after shutdown to prevent the abnormal operation of the system.

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TECHNOLOGY

CE FC

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# Table of Contents

# Chapter 1　Introduction

## 1.1 Overview

ARS-2030A, 2035A, and 2037P are all copy controllers supporting high-speed CD/ DVD writers. ARS-2030A is a 1-to-3 model, ARS-2035A 1-to-5 model, and ARS-2037P 1-to-7 model.

ARS-2030A/2035A/2037P doesn't need connecting to a computer. Through the LCD and the 4 buttons on the panel, you can copy text, audio or video CD/DVD easily and quickly. It is fit for companies to do a small amount of production.

Usually if you want to back up a lot of CD/DVDs, you have to boot the computer, and do the job via a recording program. It takes time to learn how to use the software and more time to execute the recording. In view of this, ACARD has launched ARS-2030A/2035A/2037P for you to copy 3, 5 or 7 discs at the same time.

## 1.2 Features

- Standalone IDE to IDE DVD copy controller
- Totally independent without installing hardware or software
- Supports a 3.5" SATA hard drive
- Supports high-speed 1-to-3, 1-to-5 or 1-to-7 DVD copying
- A user-friendly interface with LCD showing message
- Optional functions for applications

## 1.3 Specifications

- 2030A/2035A : ACARD ATP-865 IDE processor
  2037P : ACARD ATP-866 IDE processor
- 32-bit RISC CPU

- 2030A/2035A : 32 MB SDRAM memory

  2037P : 64 MB SDRAM memory

- 4 (1-to-3) / 6 (1-to-5) / 8 (1-to-7) independent IDE channels

- $2 \times 16$ LCD ($2 \times 18$ for Chinese and Japanese)

- 4 membraned buttons on the panel

- 512 KB flash memory for boot loader

- 2 MB flash memory for copy code

- Firmware update by DVD-ROM

- Power          Voltage: 5V±5%, Current: 1.5A  Max

- Environment   Operation: 0°C  to 60°C

                        Nonoperation: -20°C to 85°C

- Humidity     15% to 90%

- Dimension   D 215 / W 150 / H 42 mm

## 1.4  System Requirement

- 2030A: upright external case 5/6 $\times$ 5.25"

  2035A: upright external case 7/8 $\times$ 5.25"

  2037P: upright external case 9/10 $\times$ 5.25"

- Power supply : 300 watt or above

- ATA133 cable

- DVD-ROM $\times$ 1

- DVD writer $\times$ 3 or 5 or 7

- Hard drive (optional)

- HDD tray (optional)

# Chapter 2　Hardware Installation

Before installing ARS-2030A/2035A/2037P, notice that there are three kinds of packages: the copy controller only, a whole copying system and a system without DVD drives.

## 2.1　Copy Controller Only

- Unpack the package, and examine if there is any defect or malfunction.
- Prepare a DVD-ROM.
- Prepare 3 or 5 or 7 DVD writers.
- Prepare a 3.5" hard drive (optional).
- All IDE devices are in Master mode (but when connecting a hard drive, DVD-ROM is set as Slave while hard drive as Master).

## 2.2　A Whole System

- Unpack the package, and examine if there is any defect or malfunction.
- Prepare a 3.5" hard drive (optional).
- Be sure that the watt of power supply is sufficient.

## 2.3　A System without DVD Drives

- Unpack the package, and examine if there is any defect or malfunction.
- Prepare a DVD-ROM.
- Prepare  3 or 5 or 7 DVD writers.
- Prepare a 3.5" hard drive (optional).
- Be sure that the watt of power supply is sufficient.

## 2.4 How to Install

### 2.4.1 Install 2030A

The following diagram and pictures indicate the installation of ARS-2030A Copy Controller with a DVD-ROM and 3 DVD writers.
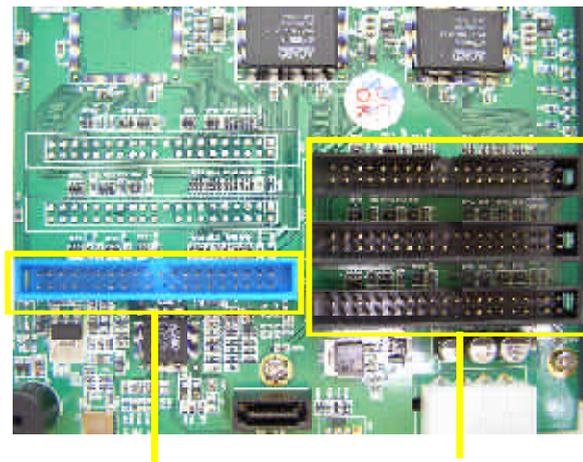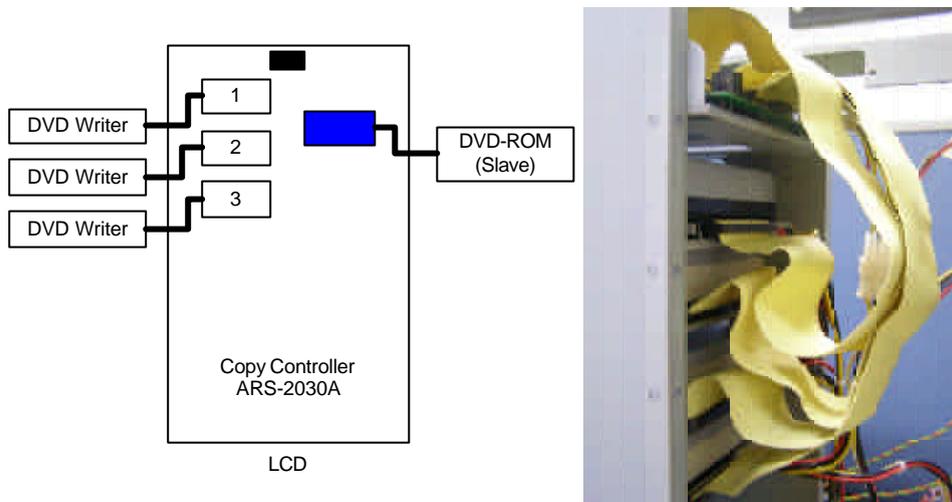
In this case the DVD-ROM should be set as Slave.





DVD-ROM's IDE connector        DVD writers' IDE connectors

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The following diagram and pictures indicate the installation of ARS-2030A Copy Controller with a SATA hard drive, a DVD-ROM and 3 DVD writers.

In this case the DVD-ROM should be set as Slave.



DVD-ROM's IDE connector          DVD writers' IDE connectors

SATA HDD's connector

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The following diagram and pictures indicate the installation of ARS-2030A Copy Controller with Hybrid Source. The controller could use either IDE or SATA HDD as copy source.

### 2.4.2 Install 2035A

The following diagram and pictures indicate the installation of ARS-2035A Copy Controller with a DVD-ROM and 5 DVD writers.

In this case the DVD-ROM should be set as Slave.
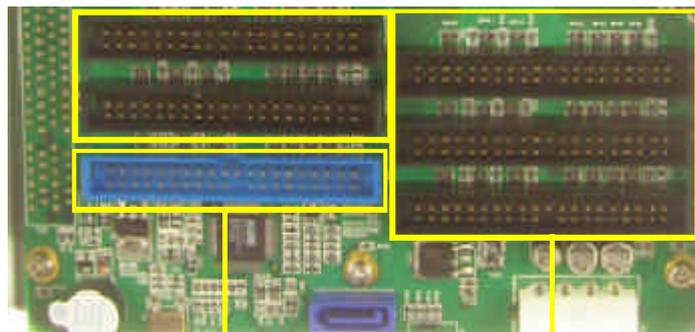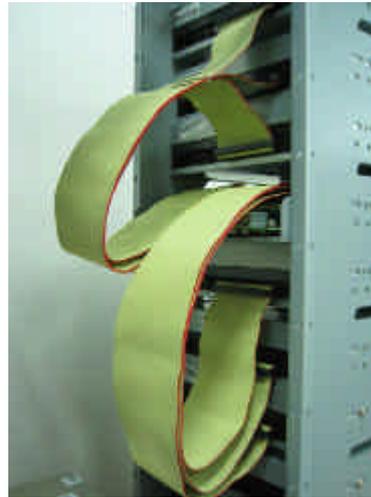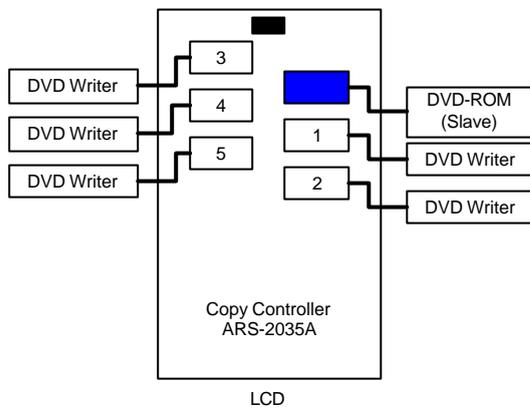




DVD-ROM's IDE connector          DVD writers' IDE connectors

The following diagram and pictures indicate the installation of ARS-2035A Copy Controller with a SATA hard drive, a DVD-ROM and 5 DVD writers.
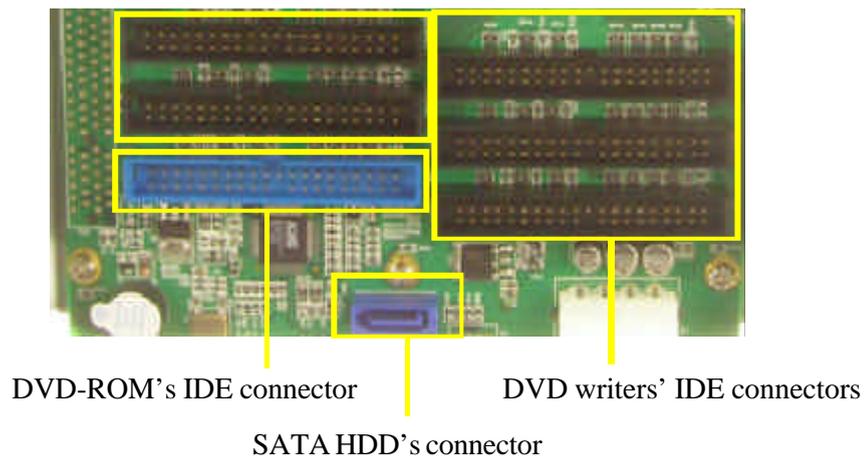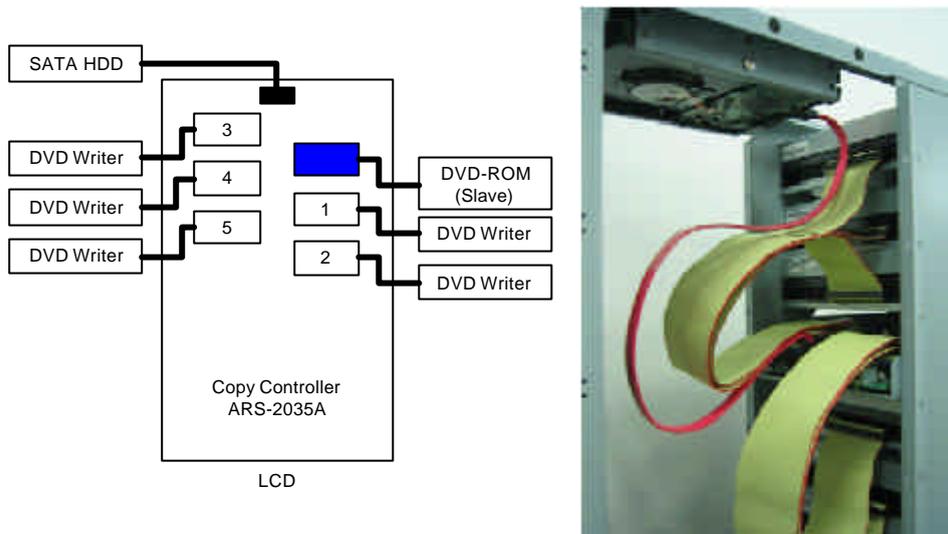
In this case the DVD-ROM should be set as Slave.





DVD-ROM's IDE connector          DVD writers' IDE connectors

SATA HDD's connector

The following diagram and pictures indicate the installation of ARS-2035A Copy Controller with Hybrid Source. The controller could use either IDE or SATA HDD as copy source.
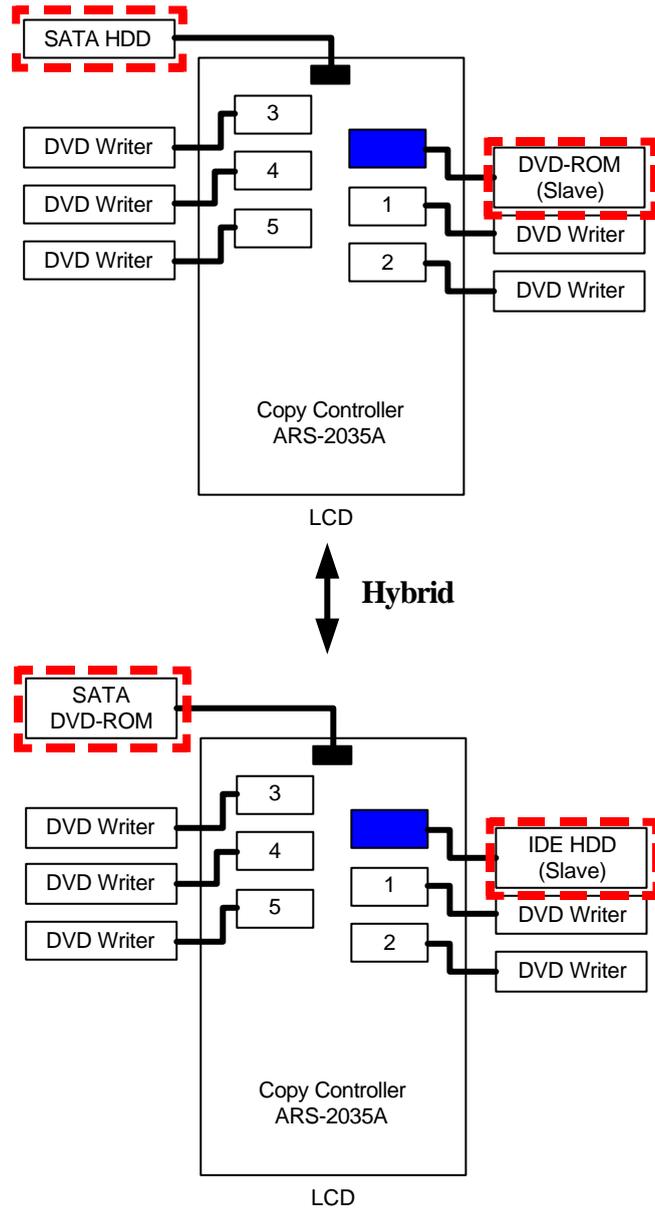
### 2.4.3 Install 2037P

The following diagram and pictures indicate the installation of ARS-2037P Copy Controller with a DVD-ROM and 7 DVD writers.
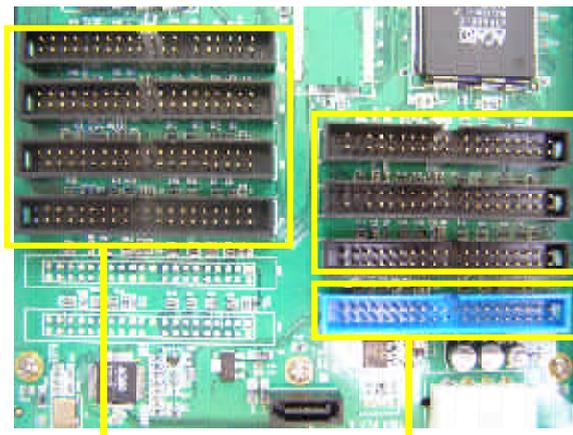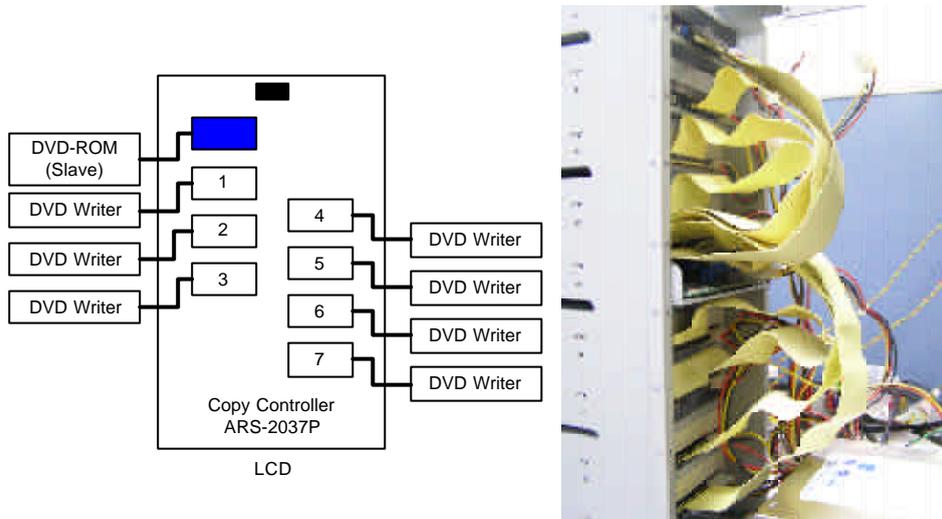
In this case the DVD-ROM should be set as Slave.





DVD-writers' IDE connector          DVD-ROM's IDE connectors

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The following diagram and pictures indicate the installation of ARS-2037P Copy Controller with a SATA hard drive, a DVD-ROM and 7 DVD writers.

In this case the DVD-ROM should be set as Slave.
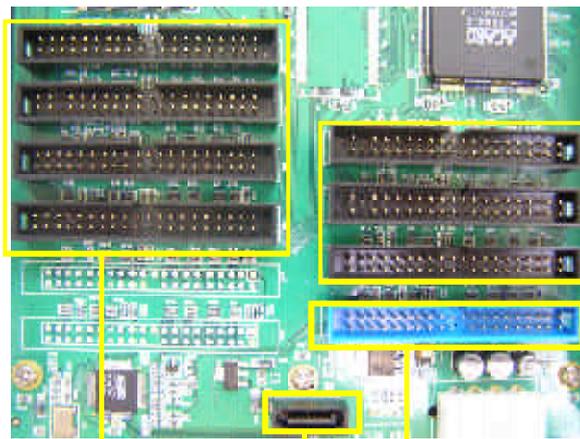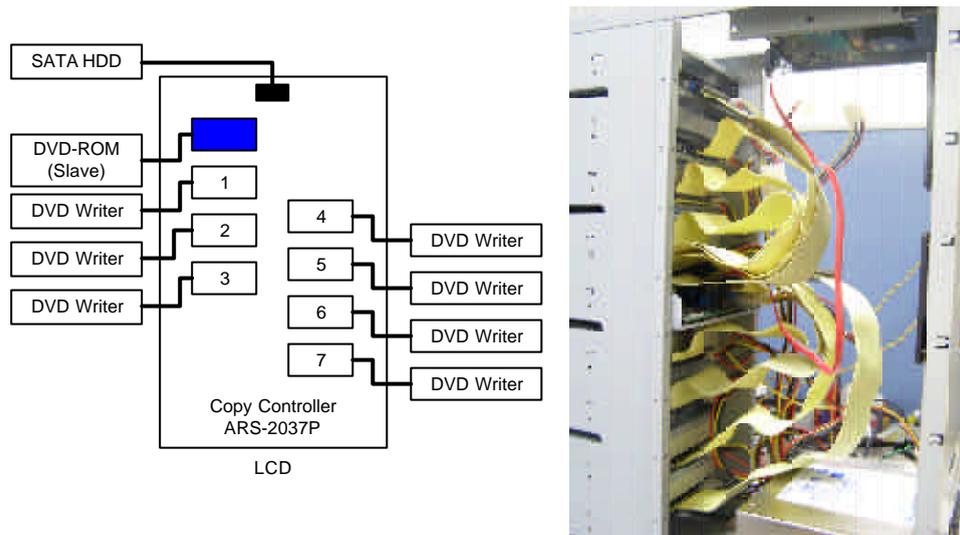




DVD-writers' IDE connector          DVD-ROM's IDE connectors

SATA HDD's connector

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The following diagram and pictures indicate the installation of ARS-2037P Copy Controller with Hybrid Source. The controller could use either IDE or SATA HDD as copy source.



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# Chapter 3    Basic Instructions

## 3.1  Buttons and LCD

There are 4 membraned buttons and an LCD on the panel of ARS-2030A/2035A/ 2037P.
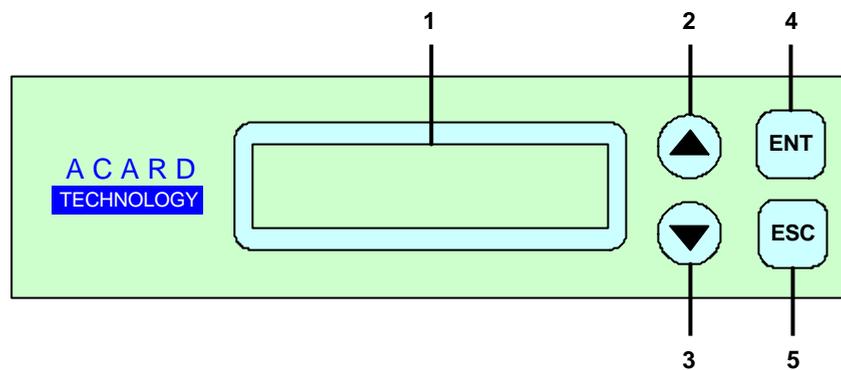
1. It shows all functions and messages.

2. It is used to scroll up through functions or menus.

3. It is used to scroll down through functions or menus.

4. It is used to execute a selected function.

5. It is used to cancel a selected function.

Here we take ARS-2037P  to demonstrate.

1.

| DVD   Duplicator |
| 2037P  ver: 1.11S |

2.

| OS booting... |
| 1 |

Figure 1 shows the firmware version of ARS-2037P. Figure 2 shows that OS booting takes 20 seconds or so. It depends on how many writers you have installed.

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3.

> **1. Copy**
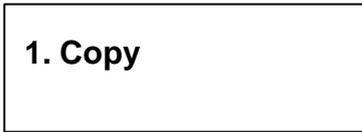
Figure 3 shows the first function Copy. There are 12 functions. You can press ▼ to see other functions.

## 3.2  About HDD Installation

HDD installation is not necessary, but with a hard disk you can use the function of Image. In other words, you have one more choice to reproduce a DVD from an image file stored in the hard drive. The following two subsections are about installing a 3.5" SATA hard drive and not installing respectively.

**Identify two different kinds of cables before hardware installation.**

1. Two connectors for DVD-ROM or optional HDD

**Connect  to ARS-2030A/
2035A/2037P SATA port**

**Connect to SATA
hard drive**
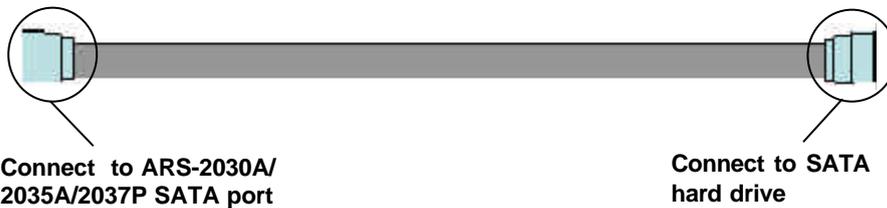
2. Two connectors for DVD writers

**Connect to ARS-2030A/2035A/2037P
IDE  port**

**Connect to IDE Writer**
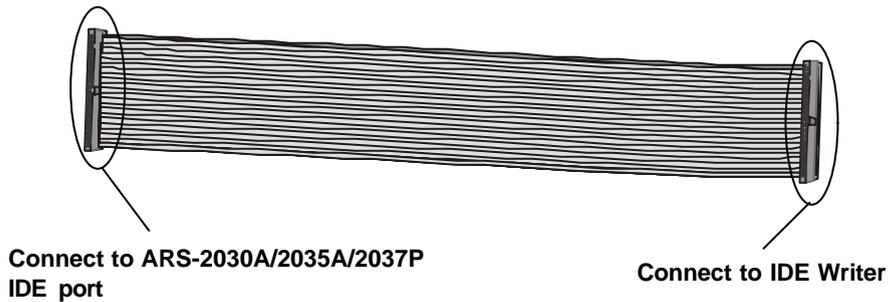
### 3.2.1  With a HDD

If you have installed a 3.5" SATA hard drive to your copy controller, you need to operate according to the following procedures.

- Once your copy controller detects the hard disk, it will ask if you want to format. A 30GB of hard drive can be divided into 6 partitions. In DVD a partition occupies 5GB, in CD 1GB and in DL 10GB.
- Use function 8 Select Source to set the hard drive as the source.
- In function 9 Image, select a partition to store the data.
- If there is no data in a selected partition, place a source DVD into DVD-ROM, and use function 9-01 Load to transmit data from DVD into the selected partition by pressing **ENT**. Different data can be stored in different partitions.
- Switch to function 1 Copy by pressing ▲ . Place blank DVDs into DVD writers, and press **ENT** to start copying.
- When copying comes to an end, the passed DVDs will eject automatically. The default is ejecting automatically, but you can change it.
- The failed DVDs will remain in the writers. The default is keeping failed DVDs in the writers, but you can change it. To take the failed DVDs you need to press the "eject" buttons on the writers.
- During operation do not press any button on your copy controller, because interruption will harm the device, and DVDs will be damaged, too.

### 3.2.2 Without a HDD

If you haven't installed a 3.5" SATA hard drive to your copy controller, you need to operate according to the following procedures.

- Place a source DVD into DVD-ROM.
- Switch to function 1 Copy by pressing ▲ . Place blank DVDs into DVD writers, and press **ENT** to start copying.
- When copying comes to an end, the passed DVDs will eject automatically. The default is ejecting automatically, but you can change it.
- The failed DVDs will remain in the writers. The default is keeping failed DVDs in the writers, but you can change it. To take the failed DVDs you need to press the "eject" buttons on the writers.

# Chapter 4    Board Layout

The board layout of ARS-2030A is shown as follows.

Control panel                                         LCD



Red

2-pin
signal line

DVD-ROM        SATA HDD    Writers    Power

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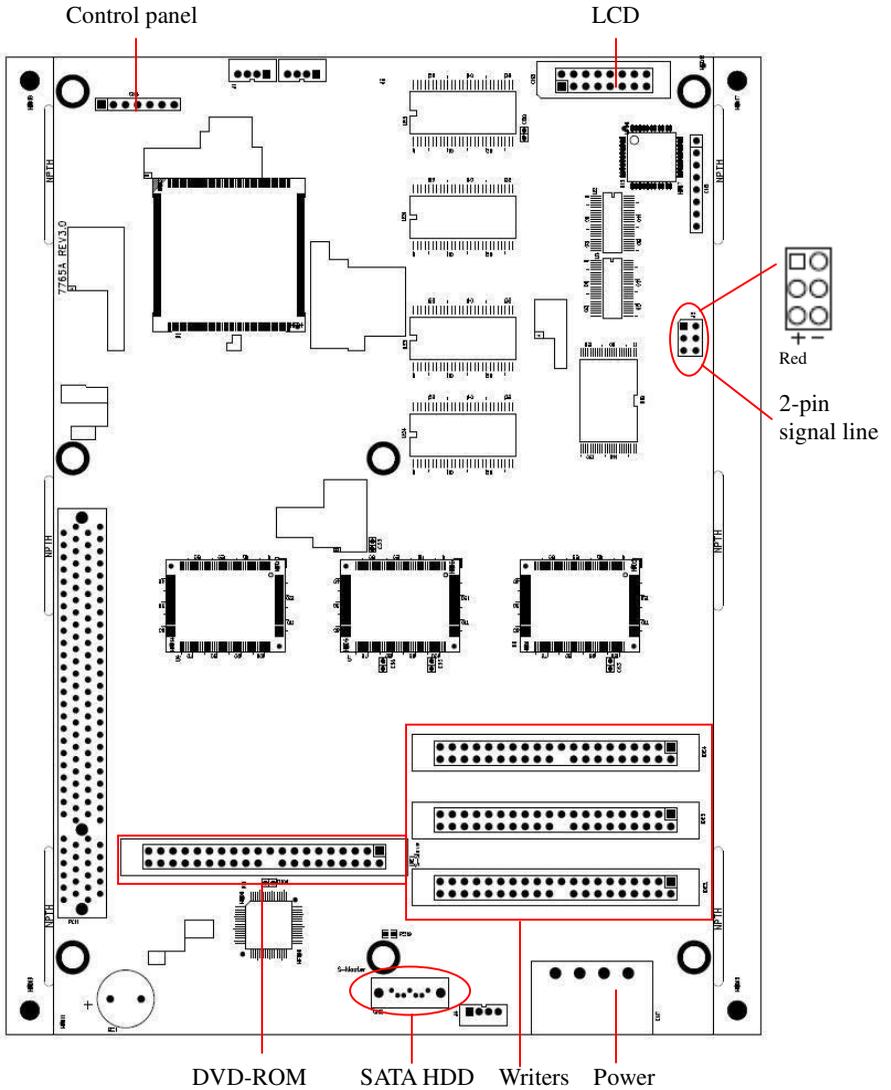
The board layout of ARS-2035A is shown as follows.

Control panel                                    LCD



Red

2-pin
signal line

DVD-ROM        SATA HDD        Writers        Power
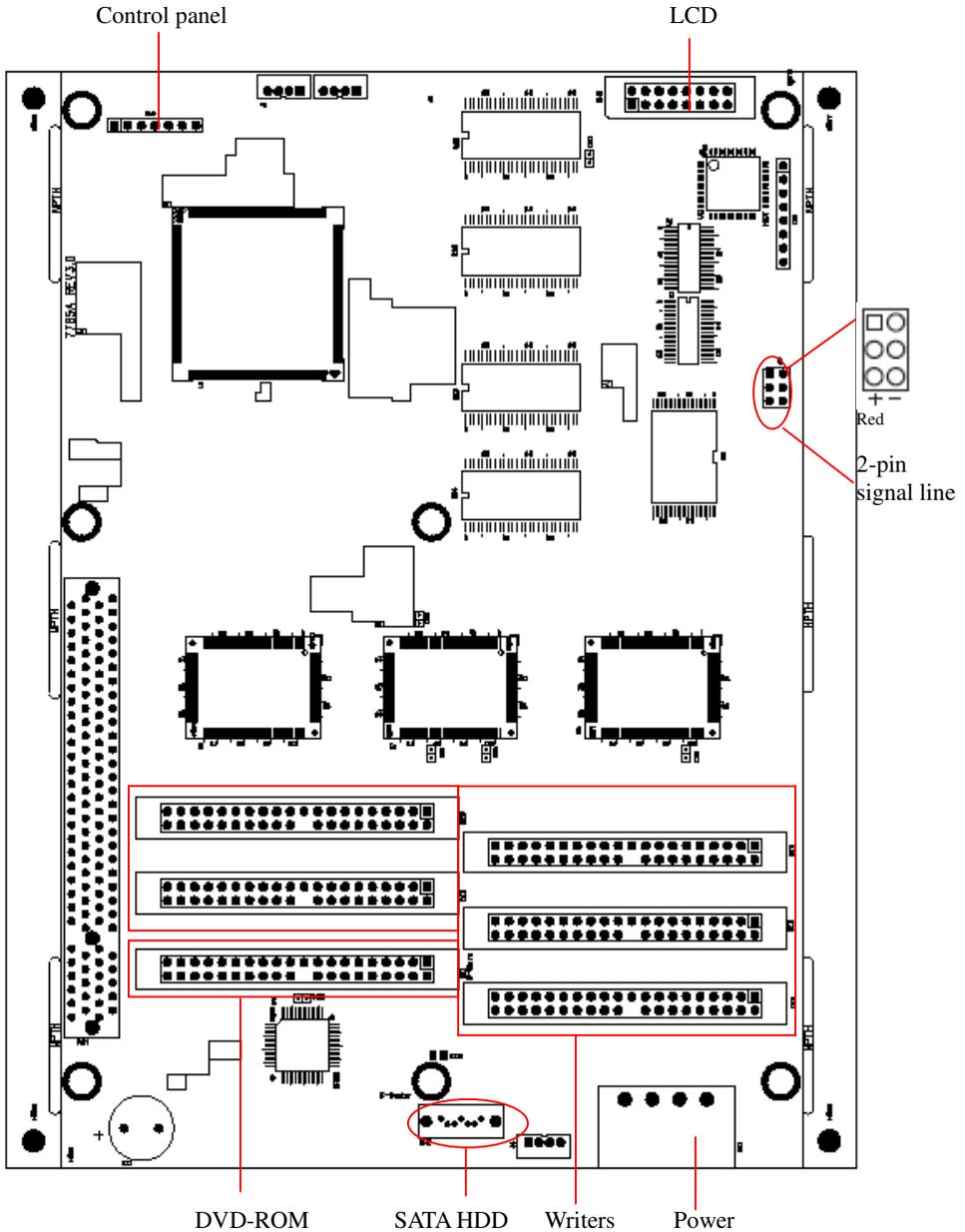
The board layout of ARS-2037P is shown as follows.



Control panel

LCD

Red

2-pin
signal line

Writers          SATA HDD    DVD-ROM    Power
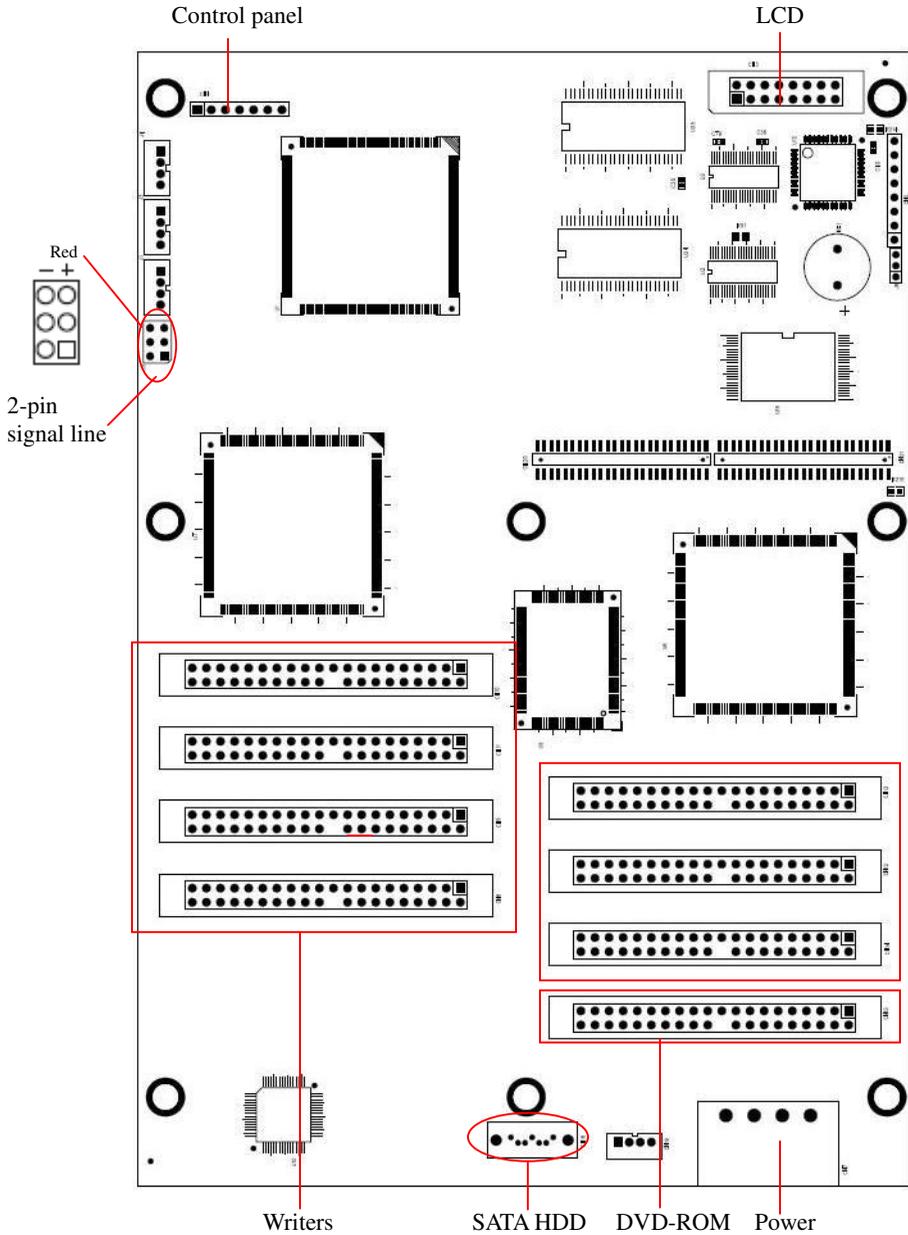
# Chapter 5 Functions

There are 12 major functions in the copy controller, and there are subfunctions in Function 9, 10, 11, and 12 as the following figures show.
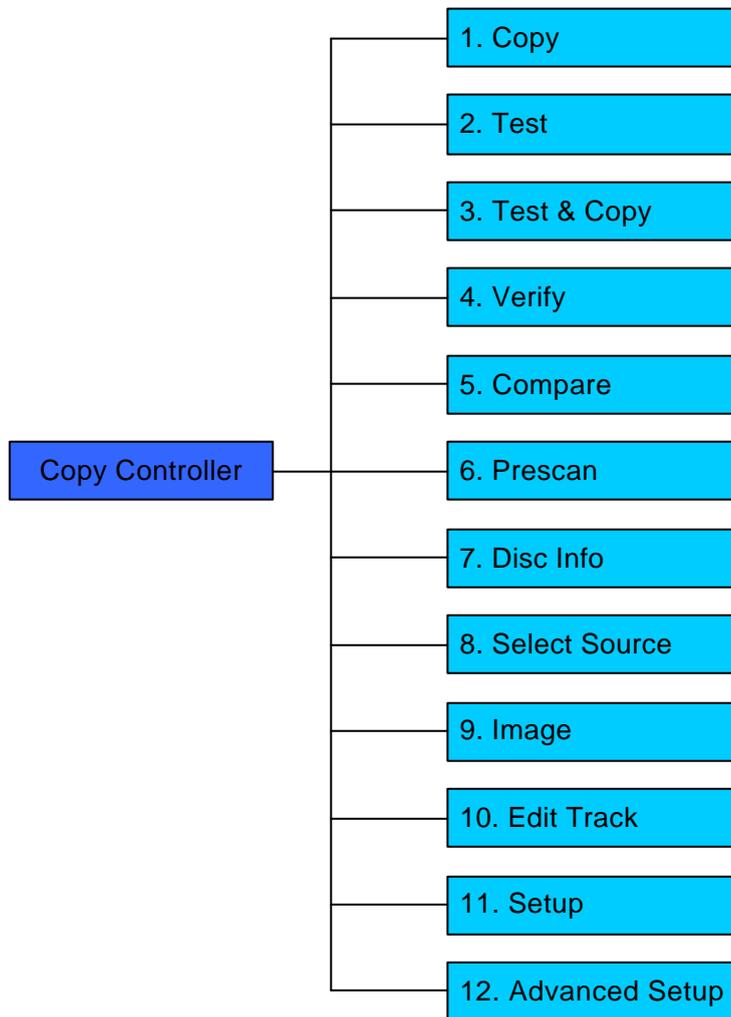
In Function 9 there are 8 subfunctions.

| | |
|---|---|
| | 9.1 Load |
| | 9.2 Delete Image |
| | 9.3 Image Info |
| | 9.4 Compare Image |
| 9. Image | 9.5 Select Image |
| | 9.6 Image Src Drive |
| | 9.7 Image Format Info |
| | 9.8 Edit |
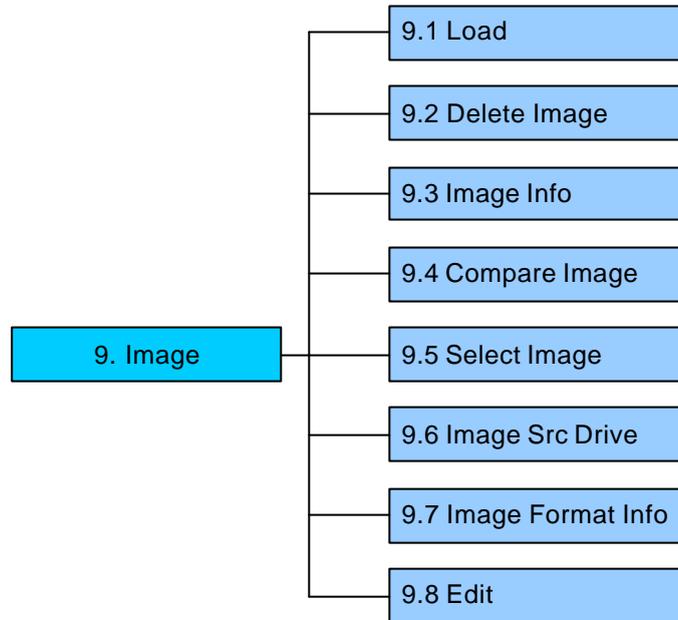
In Function 10 there are 4 subfunctions.

| | |
|---|---|
| | 10.1 CD to CD Edit |
| | 10.2 CD to HDD Edit |
| 10. Edit Track | 10.3 Play Audio Track |
| | 10.4 Close Session |
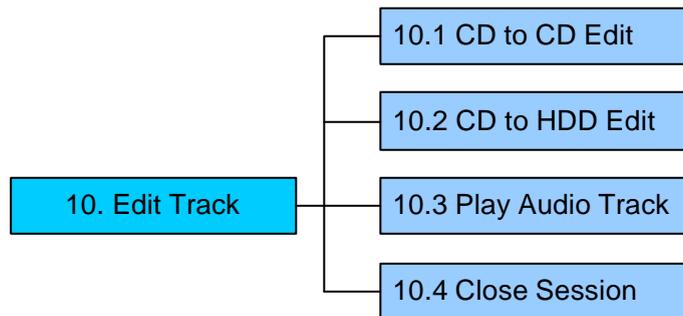
In Function 11 there are 21 subfunctions.

| | |
|---|---|
| | 11.1 Language |
| | 11.2 CD Burn Speed |
| | 11.3 DVD Burn Speed |
| | 11.4 Read Speed |
| | 11.5 Auto Start Drive |
| | 11.6 Startup menu |
| | 11.7 Auto Verify |
| | 11.8 Auto Compare |
| | 11.9 Auto Prescan |
| | 11.10 Eject Disc |
| 11. Setup | 11.11 Burn On the Fly |
| | 11.12 Burn Mode |
| | 11.13 Display Time |
| | 11.14 Button Sound |
| | 11.15 Device Info |
| | 11.16 System Info |
| | 11.17 Quick Erase |
| | 11.18 Full Erase |
| | 11.19 Auto Close Tray |
| | 11.20 Quick Compare |
| | 11.21 Audio Burn Speed |

In Function 12 there are 18 subfunctions.

| 12. Advanced Setup | |
|---|---|

- 12.1 UnderRun Protect
- 12.2 Overburn
- 12.3 Read Error Skip
- 12.4 Format HDD
- 12.5 Verify HDD
- 12.6 Burn-in
- 12.7 Update Firmware
- 12.8 Compare Firmware
- 12.9 H/W Diagnostic
- 12.10 Load Default
- 12.11 CD+G
- 12.12 ISRC & MCN
- 12.13 USB Option  *
- 12.14 CD-TEXT
- 12.15 Password
- 12.16 Disc Counter
- 12.17 Auto Save Image
- 12.18 Update Drive F/W
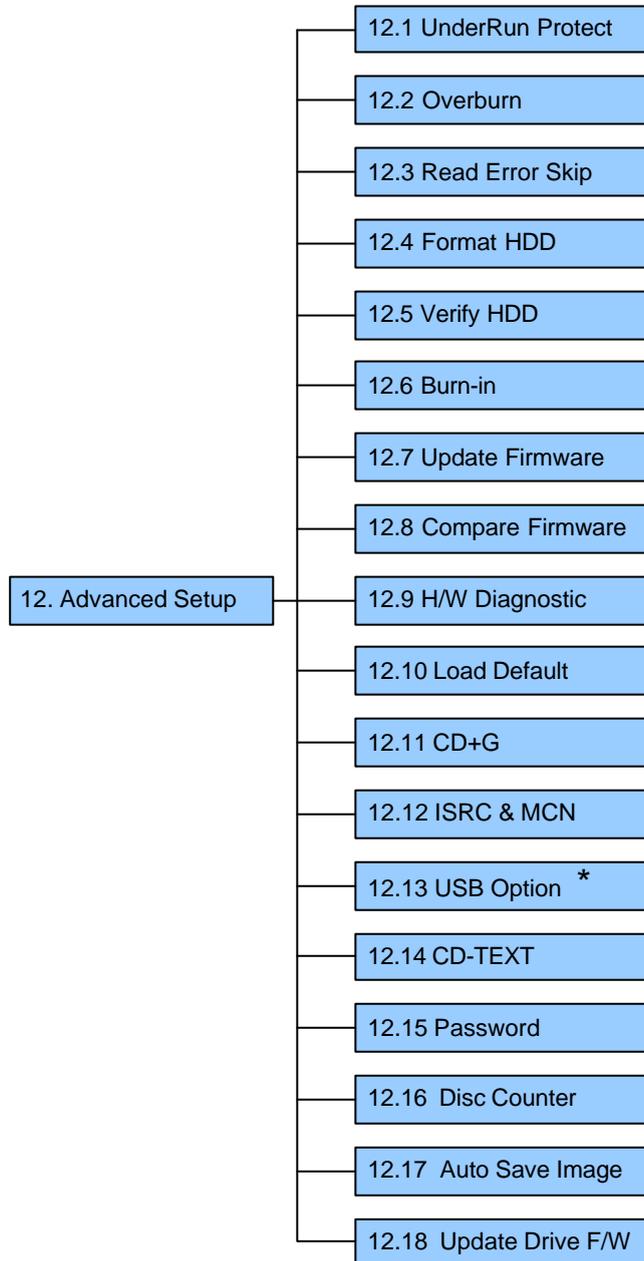
* This is a special function. See P.76 and 105 for details.

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Among the 12 functions, Function 10 Edit Track is designed exclusively for editing a collection of favorite songs from CDs. During operation if you don't understand an LCD message, see Appendix A . Now let's take ARS-2037P to demonstrate.

## 5.1  Copy

Function 1 Copy is to copy data from a source DVD directly into blank DVDs. Before copying be sure that the source DVD is placed into DVD-ROM, or there are data in a certain HDD partition if you have installed a hard drive. If you are not so sure of real copying, use Function 2 Test to simulate first.

Select function 1. Put a source DVD into DVD-ROM and blank DVDs into the DVD writers. A rewriteable DVD containing old data is also usable, but the old data will be automatically erased.

```
1.Copy
```

After the DVD-ROM and DVD writers detect DVDs, press **ENT** to start copying. LCD will show the copying information as follows.
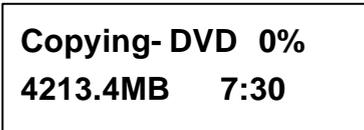
```
Copying- DVD  0%
4213.4MB    7:30
```

When copying is in progress, MB and time will decrease while the percentage of completion will increase. "MB" means the size of data that you want to copy.

When copying comes to an end, LCD will show the results as follows. The passed DVDs will eject automatically.

```
1.Copy
OK: 07
```

## 5.2  Test

Function 2 Test is to simulate the copying progress. When simulation finishes, there will be no data really written into DVDs.

Select function 2. Put a source DVD into DVD-ROM and blank DVDs into the DVD writers. Only a DVD-R disc supports this function.

```
2.Test
```

Press **ENT** to start simulation. If you use DVD rewriteable discs that contain data, the old data will be quickly erased before simulation as shown below.

```
Erasing disc
```

LCD will show the testing information as follows.

```
Testing- DVD    0%
4213.4MB    7:30
```

When the test comes to an end, LCD will show the results as follows.

```
2.Test
OK: 07
```

Stopping the test halfway does not affect the DVDs, but if the DVD-rewriteable discs contain important data, they may be destroyed.

## 5.3  Test & Copy

Function 3 Test & Copy is to test first and then copy actually.

Select function 3. Put a source DVD into DVD-ROM and blank DVDs into the DVD writers.

```
3.Test & Copy
```

Press **ENT** to start simulation. LCD will show the testing information as follows.

```
Testing- DVD    0%
4213.4MB    7:30
```

When the test finishes, actual copying will begin as shown below.

```
Copying- DVD  0%
4213.4MB    7:30
```

When the whole process finishes, LCD will show the results as follows.

```
3.Test & Copy
OK: 07
```

Note that those discs that have passed the test will be copied right away while those that haven't won't be.

## 5.4  Verify

Function 4 Verify is to examine if the target DVDs can be read correctly after copying.

Select function 4.

```
4.Verify
```

Press **ENT** to verify. LCD will show the verification information as follows.

```
Verify- DVD    0%
4213.4MB    7:30
```

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When verification comes to an end, LCD will show the results as follows.

```
4.Verify
OK: 07
```

## 5.5  Compare

Function 5 Compare is to make a comparison between the source DVD and the target DVDs after copying.

Select function 5. Put the source DVD into DVD-ROM and the target DVDs into DVD writers.

```
5.Compare
```

Press **ENT** to compare. LCD will show the comparison information as follows.

```
Compare- DVD  0%
4213.4MB     7:30
```

When comparison comes to an end, LCD will show the results as follows.

```
Compare   OK: 7
Fail: 0      Diff: 0
```

Press **ENT** to see the details of source 1 as shown below.

```
Src: 01    DVD-ROM
Total:    4213.4MB
```

Press **ENT** to see the details of source 2. If the comparison is identical, LCD will show the message as follows.

```
Src: 02    DVD-RW
Identical
```

If comparison fails, LCD will show the failure. By pressing **ENT** twice, LCD will show that the contents of source 1 and those of source 2 do not match as follows.

```
Src: 02    DVD-RW
TOC not match
```

## 5.6  Prescan

Function 6 Prescan is to scan if the source DVD can be read correctly, and by the way to test the reading speed.

Select function 6. Put the source DVD into DVD-ROM.

```
6.Prescan
```

Press **ENT** to prescan. LCD will show the scanning information as follows.

```
Scaning- DVD  0%
4213.4MB    7:30
```

When scanning finishes, and the source DVD can be read correctly, LCD will show the results as follows.

```
PreScan OK!
```

## 5.7  Disc Info

Function 7 Disc Info is to show the basic information of source DVD.

Select function 7. Put the source DVD into DVD-ROM.

```
7.Disc Info
```

Press **ENT**, and LCD will show the DVD information as follows.

```
Disc Type: DVD-ROM
Capacity: 4213.4MB
```

## 5.8  Select Source

Function 8 Select Source is to let you select the data on DVD-ROM, DVD writers or HDD as the source from which copying will be done.

Select function 8.

```
8.Select Source
```

Press **ENT**, and then press ▲ ▼ to select the source as shown below.

```
Src:  DVD-ROM
01  IDE1   Master
```

After selecting the source such as DVD-ROM, you can press **ENT**, and LCD will show the message as follows.

```
DVD-ROM selected!
```

Suppose you select HDD as the source and try to copy from one of its partitions, but the partition contains no data, an error message will appear on LCD. At this moment, you can switch to another partition that contains data, or use function 9 Image to load the data into the chosen partition first.

## 5.9  Image

Function 9 Image is valid only when you have installed a hard disk. This function includes 7 subfunctions: Load, Delete Image, Image Info, Compare Image, Select Image, Select Src Drive, and Image Format Info. The loaded data is called an image file. Refer to page 24 for the menu.

Select function 9.

```
9.Image
```

### 5.9.1  Load

Now press **ENT**, and you will enter the following figure. Here the function Load is to let you load data from DVD-ROM or any one of the DVD writers into the current partition of the hard disk. "P:A" means partition A.

```
9-01. Image      P: A
Load
```

Press **ENT** to load. LCD will show the loading information as follows.
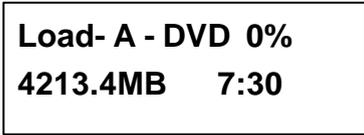
```
Load- A - DVD  0%
4213.4MB    7:30
```

After the image file is successfully loaded, LCD will show the results as follows.

```
Image load OK
```

If there is an image file existing in the current partition, the system will ask you whether to overwrite it or not. Please use ▲ ▼ to confirm Yes or No.

```
Image Exists
Overwrite?Yes
```

### 5.9.2 Delete Image

If you want to delete an image file stored in a particular partition, you can use the function Delete Image to do so. First, select the function by pressing ▼.

```
9-02. Image      P: A
Delete Image
```

The system will ask if you are sure to delete. Use ▲ ▼ to confirm Yes or No.

```
Delete Image in
Partition A?Yes
```

After the image file is deleted, LCD will show the results as follows.

```
Partition  A:
Image is deleted
```

### 5.9.3  Image Info

This function is to show the basic information of an image file stored in a particular partition. First, select the function by pressing ▼.

```
9-03. Image       P: A
Image Info
```

Press **ENT**, and LCD will show the information of the image file as follows.

```
Disc Type: DVD-ROM
Capacity: 4213.4MB
```

### 5.9.4  Compare Image

This function is to compare the contents of the source DVD and those of the image file in the partition. First, select the function by pressing ▼.

```
9-04. Image     P: A
Compare Image
```

Press **ENT**, and LCD will show the comparison information as follows.

```
Compare- DVD  0%
4213.4MB    7:30
```

When comparison comes to an end, LCD will show the results as follows.

```
Compare   OK: 1
Fail: 0      Diff: 0
```

Press **ENT** to see the details of source as shown below.

```
Src: 01   DVD-ROM
Total:    4213.4MB
```

Press **ENT** to see the details of target. If the comparison is identical, LCD will show the message as follows.

```
Tgt: 00   HDD   P: A
Identical
```

If comparison fails, LCD will show the failure. By pressing **ENT** twice, LCD will show that the contents of source and those of target do not match as follows.

```
Tgt: 00    HDD   P: A
TOC not match
```

### 5.9.5 Select Image

This function is to select a partition in the hard disk. First, select the function by pressing ▼.

```
9-05. Image   P: A
Select Image
```

After installing a hard disk, your copy controller will format it automatically. Each partition occupies 5GB. The number of partitions is dependent on the hard disk's capacity. The partitions are alphabetically arranged. Select a partition by pressing ▲ ▼ , and LCD will show the message as follows.

```
Select    Partition
A: DVD      4213.4MB
```

After the partition is selected, LCD will show the results as follows.

```
Set  Partition  to
A
```

### 5.9.6 Image Src Drive

This function is to select DVD-ROM or any of the DVD writers as the source from which you can load data into a particular partition as an image file.

First, select the function by pressing ▼.

```
9-06. Image      P: A
Image Src Drive
```

Then, use ▲ ▼ to select DVD-ROM or any of the DVD writers as the source.

```
Select  Img  Src:
01  IDE1 DVD-ROM
```

After selecting the source such as DVD-ROM, you can press **ENT**, and LCD will show the message as follows.

```
Load  image  from
Drive ID-01
```

### 5.9.7  Image Format Info

This function is to see how you have formatted your hard disk. It is related to function 12.4 Format HDD. There are 3 formats for choice: CD, DVD, and DL (Double Layer).

Now press **ESC** and ▼ to enter the following figure.

```
9-07. Image      P: A
Image Format Info
```

Press **ENT** to see the following figure. This figure shows that the hard disk has been formatted as DVD.

```
Image Format Info
DVD
```

If your hard disk is a new one and not formatted yet, LCD will show the message as follows after powering on.

```
HD00 not Format!
Format HDD? Yes
```

Press **ENT** to confirm Yes, and you will see the following figure.

```
HD Partition
Format Select? DVD
```

You can press ▼ to select CD or DL.

### 5.9.8  Edit

This function is to name a certain partition, but only when the partition contains an image file can title editing be valid. First, select the function by pressing ▼.

```
9-08. Image    P: A
Edit
```

Press **ENT**. A title should be composed of 1 to 13 characters. The character can be A, B, C, etc. or 1, 2, 3, etc. or the combination of both. Use ▲ ▼ to select the number or alphabet. After selecting a desired one, press **ENT**.

```
Edit Title
?
```

After keying in the title, press **ENT** to see the following figure.

```
Edit Sub1 Title
?
```

Sub1 Title lets you key in a subtitle 1. You can press **ENT** again to key in a subtitle 2. When title editing is completed, you will see the next figure.

```
Edit Title
OK!
```

## 5.10 Edit Track (for CD only)

Function 10 Edit Track is exclusively designed for editing a collection of favorite songs from CDs. In other words, it can collect different tracks (songs) on a number of CDs and merge them into a single CD. This function includes 4 subfunctions: CD to CD, CD to HDD, Play Audio Track and Close Session. Refer to page 24 for the menu.

Select function 10.

```
10.Edit Track
```

### 5.10.1  CD to CD Edit

Now press **ENT**, and you will enter the following figure.Here the function CD to CD Edit lets you select a track or more from CD-ROM, and then copy into blank CD-R/RWs.

```
10-01. Edit Track
CD  to  CD  Edit
```

Now press **ENT**, and you will enter the following figure. Here 1/10 means the number one of the 10 tracks, and 03:25 means the length of track.

```
Select Track:
1/10      03:25
```

You can press ▼ to see the second track and so on. Suppose we decide to select the first track, then press **ENT**. A "+" will appear beside 1/10 as shown below. But pressing **ENT** again may cancel the selection.

```
Select Track:
+1/10      03:25
```

After selecting, please use ▲ to move to the "End" menu as shown below.

```
Select Track:
End  1Trk03:25
```

Press **ENT** to finish the CD editing, and use ▲ ▼ to confirm Yes or No.

```
End  edit  disc
and  burn?Yes
```

LCD will show the copying information as follows.

```
Copying- 24X  Edit
1/10  - >   1/1
```

"1/1" means the first track of all tracks we have selected, and here we have just selected one track. When copying comes to an end, LCD will show the message as follows.

```
Burn Complete!
OK: 07
```

The system will ask if you want to keep editing. Please use ▲ ▼ to confirm Yes or No as shown below.

```
┌─────────────────────────────┐
│  Continue edit              │
│  next Disc?Yes              │
│                             │
└─────────────────────────────┘
```

If you want to keep editing, the current source CD will eject auctomatically, and the system will ask you to insert another new CD as shown below.

```
┌─────────────────────────────┐
│  Insert next disc           │
│                             │
│                             │
└─────────────────────────────┘
```

After inserting the new CD, press **ENT** to edit as before. Suppose we decide to select the second track, then press **ENT**. A "+" will appear beside 2/10 as shown below.

```
┌─────────────────────────────┐
│  Select Track:              │
│  +2/10      04:25           │
│                             │
└─────────────────────────────┘
```

After selecting, please use ▲ to move to the "End" menu as shown below.

```
┌─────────────────────────────┐
│  Select Track:              │
│  End  1Trk04:25             │
│                             │
└─────────────────────────────┘
```

Press **ENT** to finish the CD editing, and use ▲ ▼ to confirm Yes or No.

```
End edit disc
and burn?Yes
```

LCD will show the copying information as follows.

```
Copying- 24X  Edit
2/10  - >   2/2
```

"2/2" means the second track of all tracks we have selected, and so far we have selected two tracks from two different CDs. When copying comes to an end, LCD will show the message as follows.

```
Burn Complete!
OK: 07
```

The system will ask if you want to keep editing. Suppose we don't like to continue, then press ▼ to confirm No.

```
Continue edit
next Disc?No
```

Now press **ENT**. The system will ask if you want to close all CDs' sessions. Please use ▲ ▼ to confirm Yes or No as shown below.

```
Close all disc's
session? Yes
```

After deciding to close, LCD will show the message as follows. Note that you cannot listen to the music before closing sessions.

```
Closing Session
Please wait---
```

### 5.10.2  CD to HDD Edit

After closing sessions, press **ESC** and ▼ to enter the following figure. Here the function CD to HDD Edit lets you select a track or more from CD-ROM, and then copy into a certain partition of HDD.

```
10-02. Edit Track
CD to HDD Edit
```

Now press **ENT**, and you will enter the following figure. Here 1/10 means the number one of the 10 tracks, and 03:25 means the playing time.

```
Select Track:
1/10      03:25
```

Suppose we decide to select the first track, then press **ENT**. A "+" will appear beside 1/10 as shown below. But pressing **ENT** again may cancel the selection.

```
┌─────────────────────────┐
│ Select Track:           │
│ +1/10      03:25        │
│                         │
└─────────────────────────┘
```

After selecting, please use ▲ to move to the "End" menu as shown below.

```
┌─────────────────────────┐
│ Select Track:           │
│ End   1Trk03:25         │
│                         │
└─────────────────────────┘
```

Press **ENT** to finish the CD editing, and use ▲ ▼ to confirm Yes or No.

```
┌─────────────────────────┐
│ End edit disc           │
│ and burn?Yes            │
│                         │
└─────────────────────────┘
```

Then, the track as an image file will be loaded into HDD. LCD will show the loading information as follows.

```
┌─────────────────────────┐
│ Load- P0 -24X Edit      │
│ 1/10  - >   1/1         │
│                         │
└─────────────────────────┘
```

When loading comes to an end, LCD will show the message as follows.

```
┌─────────────────────────┐
│ Image load OK           │
│                         │
│                         │
└─────────────────────────┘
```

The system will ask if you want to keep editing. Please use ▲ ▼ to confirm Yes or No as shown below.

```
Continue edit
next Disc?Yes
```

If you want to keep editing, the current source CD will eject auctomatically, and the system will ask you to insert another new CD as shown below.

```
Insert next disc
```

After inserting the new CD, press **ENT** to edit as before. Suppose we select the second track, then press **ENT**. A "+" will appear beside 2/10 as shown below.

```
Select Track:
+2/10      04:25
```

After selecting, please use ▲ to move to the "End" menu as shown below.

```
Select Track:
End  1Trk04:25
```

Press **ENT** to finish the CD editing, and use ▲ ▼ to confirm Yes or No.

```
End edit disc
and burn?Yes
```

Then, the track as an image file will be loaded into HDD. LCD will show the loading information as follows.

```
Load- P0 -24X Edit
2/10  - >   2/2
```

When loading comes to an end, LCD will show the message as follows.

```
Image load OK
```

The system will ask if you want to keep editing. This time please use ▼ to confirm No as shown below.

```
Continue edit
next Disc?No
```

Then, the system will ask if you want to burn from HDD into CD-R/RW or move into a partition. Please use ▲ to confirm Burn as shown below.

```
Burn or Move to
partition?Burn
```

After pressing ▲ , LCD will show the copying information as follows.

```
Copy- P0 -24X   0%
1/2  Trk03:25
```

When burning finishes, LCD will show the results as follows.

> **Burn Complete !**
> **OK: 07**

Now press **ESC** to enter the following figure. And press ▼ to move the data from HDD template into a certain partition.

> **Burn or Move to**
> **partition?  Move**

After pressing ▼, you need to select a partition into which the data will be moved. Suppose we select A as shown below.

> **Select Partition**
> **A**

After pressing **ENT**, LCD will show the moving information as follows.

> **Moving to P: A**
> **0%**

When moving finishes, LCD will show the results as follows.

> **Moving to P: A**
> **OK!**

If the chosen partition has contained image data, the system will ask to overwrite or keep the data. Press ▲ to overwrite.

```
Image Exists
Overwrite?Yes
```

After pressing ▲ , LCD will show the moving information as follows.

```
Moving to P: A
        0%
```

When moving finishes, LCD will show the results as follows.

```
Moving to P: A
OK!
```

## 5.10.3  Play Audio Track

This function is to make the copy controller act as a music player. You can connect a headphone to the headphone jack on the source, and enjoy the music.

Now press **ESC** and ▼ to select the function.

```
10-03. Edit Track
Play Audio Track
```

Use ▲ ▼ to select the track you want to play.

```
Select  Track:
1/10      03:25
```

After selecting and pressing **ENT**, LCD will show the playing information below.

```
Playing Track-1
00:00 / 03:25
```

### 5.10.4  Close Session

This function is to close CDs and let no data written into. After closing, you can put the CDs on any normal player and listen.

Now press **ESC** and ▼ to select the function.

```
10-04. Edit Track
Close   Session
```

After pressing **ENT**, the system will ask if you are sure to close.

```
Close all disc's
session? Yes
```

After pressing **ENT**, LCD will show the message as follows.

```
Closing  Session
Please wait---
```

When closing finishes, LCD will show the results as follows.

```
Closing  Complete
OK :7      Fail :0
```

## 5.11  Setup

Function 11 Setup lets you change the default settings. Once you change a setting, remember to press **ENT** to save it. However, it is suggested to use the defaults for the optimal operation. This function includes 21 subfunctions: Language, CD Burn Speed, DVD Burn Speed, Read Speed, Auto Start Drive, Startup Menu, Auto Verify, Auto Compare, Auto Prescan, Eject Disc, Burn On The Fly, Burn Mode, Display Time, Button Sound, Device Info, System Info, Quick Erase, Full Erase, Auto Close Tray, Quick Compare, and Audio Burn Speed. Refer to page 25 for the menu.

Select function 11.

```
11.Setup
```

### 5.11.1  Language

Now press **ENT**, and you will enter the following figure. The function Language lets you select a language in which messages can be shown on LCD.

```
11-01. Setup
Language
```

Press **ENT** to enter the following figure. The default is English. Spanish, Japanese, Traditional Chinese and Simplified Chinese are made to order.

```
Language
English
```

### 5.11.2  CD Burn Speed

Now press **ESC** and ▼ to enter the following figure. This function lets you control the burning speed of CD writers.

```
11-02. Setup
CD Burn Speed
```

Press **ENT** to enter the following figure. The default is auto.

```
CD Burn Speed
Auto
```

### 5.11.3 DVD Burn Speed

Now press **ESC** and ▼ to enter the following figure. The function DVD Burn Speed lets you control the burning speed of DVD writers.

```
11-03. Setup
DVD Burn Speed
```

Press **ENT** to enter the following figure. The default is maximum.

```
DVD Burn Speed
Maximum
```

The following table is for reference.

| Model | Speed |
|-------|-------|
| 2030A | 20X |
| 2035A | 18X |
| 2037P | 16X |

### 5.11.4 Read Speed

Now press **ESC** and ▼ to enter the following figure. The function Read Speed lets you control the reading speed of target CDs.

```
11-04. Setup
Read Speed
```

Press **ENT** to enter the following figure. The default is maximum, but there are still other choices: 32X, 16X and 8X.

```
Read Speed
Maximum
```

### 5.11.5  Auto Start Drive

Now press **ESC** and ▼ to enter the following figure. Auto Start Drive is to copy or test automatically once you put blank DVDs into the writers.

```
11-05. Setup
Auto Start  Drive
```

Press **ENT** to enter the following figure. The default is Off. Press ▼ to select 1 (one blank DVD).

```
Auto Start Drive
Off
```

### 5.11.6  Startup Menu

Now press **ESC** and ▼ to enter the following figure. Startup Menu lets you select any one of the functions except Adv Setup as the first item appearing on the menu whenever you turn on the copy controller.

> **11-06. Setup**
> **Startup Menu**

Press **ENT** to enter the following figure. The default is Copy. You can certainly select any other function as the first item, but remember to press **ENT** to confirm.

> **Startup Menu**
> **1.Copy**

### 5.11.7 Auto Verify

Now press **ESC** and ▼ to enter the following figure. Auto Verify is to verify automatically if the target DVDs can be read after copying.

> **11-07. Setup**
> **Auto Verify**

Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.

> **Auto Verify**
> **Off**

### 5.11.8  Auto Compare

Now press **ESC** and ▼ to enter the following figure. Auto Compare is to compare automatically the source DVD and the target DVDs after copying.

```
11-08. Setup
Auto  Compare
```

Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.

```
Auto Compare
Off
```

### 5.11.9  Auto Prescan

Now press **ESC** and ▼ to enter the following figure. Auto Prescan is to scan automatically if the source DVD can be read correctly, and by the way to test the reading speed.

```
11-09. Setup
Auto  Prescan
```

Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.

```
Auto Prescan
Off
```

### 5.11.10 Eject Disc

Now press **ESC** and ▼ to enter the following figure. Eject Disc provides three choices. They are Eject Good Only, Eject All Disc, and Do Not Eject. Eject Good Only means that the DVDs will eject automatically only when they are copied successfully. Eject All Disc means that the DVDs will eject automatically whether they are copied successfully or not. Do Not Eject means that you need to eject the DVDs manually when copying finishes.

```
11-10. Setup
Eject   Disc
```

Press **ENT** to enter the following figure. The default is Eject Good Only. Press ▼ to select Eject All Disc or Do Not Eject.

```
Eject   Disc
Eject  Good  Only
```

### 5.11.11 Burn On The Fly

Now press **ESC** and ▼ to enter the following figure. Burn On The Fly lets you control the copying methods. When the setting is On, the data will be copied directly from the source DVD to the target DVDs. When the setting is Off, the data will be loaded into a partition of HDD first, and hence copying will be done.

```
11-11. Setup
Burn On The Fly
```

Press **ENT** to enter the following figure. The default is On. Press ▼ to select Off.

```
Burn On The Fly
On
```

If your copy smart plus doesn't connect with a hard disk, LCD will show the message as follows.

```
No Valid HDD !
```

### 5.11.12  Burn Mode

Now press **ESC** to return to Function 11, and then select part 12 Burn Mode as the following figure shows. Burn Mode lets you control the burning modes. There are two modes: DAO (Disc At Once) and TAO (Track At Once). They only supports CD. If  the DVD writer doesn't support the mode you have selected, the copy controller will automatically switch to another mode.

```
11-12. Setup
Burn Mode
```

Press **ENT** to enter the next figure. The default is DAO. Press ▼ to select TAO.

```
Burn Mode
DAO
```

### 5.11.13  Display Time

Now press **ESC** and ▼ to enter the following figure. Display Time is to show the copying time.

```
11-13. Setup
Display Time
```

Press **ENT** to enter the following figure. The default is On. Press ▼ to select Off.

```
Display Time
On
```

### 5.11.14  Button Sound

Now press **ESC** and ▼ to enter the following figure. Button Sound lets you control the sound of a button when you press it.

```
11-14. Setup
Button Sound
```

Press **ENT** to enter the next figure. The default is On. Press ▼ to select Off.

```
Button Sound
On
```

### 5.11.15  Device Info

Now press **ESC** and ▼ to enter the following figure. Device Info shows the information of the DVD-ROM and any of the DVD writers you have installed.

```
11-15. Setup
Device  Info
```

Press **ENT** to enter the next figure.

```
01  IDE1  Master
DVD-ROM : PIONEER
```

Press **ENT** to enter the next figure.

```
DVD-ROM    DVD-121
1.07
```

Press ▼ twice to enter the next figure.

```
02  IDE2  Master
DVD-RW : PIONEER
```

Press **ENT** to enter the next figure.

```
DVD-RW    DVR-107D
1.05
```

### 5.11.16  System Info

Now press **ESC** and ▼ to enter the following figure. System Info shows the information of the system.

```
11-16. Setup
System  Info
```

Press **ENT** to enter the next figure.

```
DVD     Duplicator
1-7    ver:  1.10A
```

Press **ENT** to enter the next figure.

```
Fujitsu     29LV320B
2004/02/13  ACARD
```

### 5.11.17  Quick Erase

Now press **ESC** and ▼ to enter the following figure. Quick Erase is to erase the data on the DVD rewriteable discs quickly.

```
11-17. Setup
Quick  Erase
```

Press **ENT** to enter the next figure. Use ▲ ▼ to confirm Yes or No.

```
All  data  will  be
lost,  erase?Yes
```

After confirming Yes and pressing **ENT**, LCD will show the message as follows.

```
Erasing   disc
00:25  (Quick)
```

When erasing finishes, LCD will show the results as follows.

```
Quick    Erase
OK:07  Fail:00
```

### 5.11.18  Full Erase

Now press **ESC** and ▼ to enter the following figure. Full Erase is to erase the data on the DVD rewriteable discs completely. Compared with Quick Erase, Full Erase takes longer time to do the job.

```
11-18. Setup
Full   Erase
```

Press **ENT** to enter the next figure. Use ▲ ▼ to confirm Yes or No.

```
All  data  will  be
lost,  erase?Yes
```

After confirming Yes and pressing **ENT**, LCD will show the message as follows.

```
Erasing   disc
45:00   (Full)
```

When erasing finishes, LCD will show the results as follows.

```
Full    Erase
OK:07  Fail:00
```

### 5.11.19  Auto Close Tray

Now press **ESC** and ▼ to enter the following figure. Auto Close Tray is to close the writer's tray automatically. It is related to function 11.5 Auto Start Drive. If you haven't set any writer to copy in function 11.5, this function will be invalid.

```
11-19. Setup
Auto Close Tray
```

Press **ENT** to see the following figure.

```
Auto Close Tray
5
```

Here 5 means that it takes 5 seconds to close the writer's tray automatically after copying finishes and the tray is ejected. Besides 5 seconds, there are 10, 15, 20, 25, 30, 35, 40, 45, and 50 seconds for choice. If you have set one or all seven writers in function 11.5, and choose 10 seconds here, then one writer's tray or all seven writers' trays will be closed in 10 seconds after copying finishes.

### 5.11.20   Quick Compare

Now press **ESC** and ▼ to enter the following figure. Quick Compare is related to function 5 Compare. It lets you set a certain byte. When the error of a target DVD is beyond the set byte, the comparison between the source DVD and the target DVD will stop. Yet the comparison of the other 6 target DVDs will continue.

```
11-20. Setup
Quick Compare
```

Press **ENT** to see the following figure. The default is Off, but you can press ▼ to choose a certain byte like 1 Byte, 1 KB, 10 KB, 100KB, 1 MB, etc.

```
Quick Compare
Off
```

### 5.11.21  Audio Burn Speed

Now press **ESC** and ▼ to enter the following figure. Audio Burn Speed lets you control the burning speed of audio CDs.

```
11-21. Setup
Audio Burn Speed
```

Press **ENT** to see the following figure. The default is auto, but there are maximum, 40X, 32X, 24X, 20X, etc. for choice.

```
Audio Burn Speed
Auto
```

## 5.12  Adv Setup

Function 12 Adv Setup lets you change the system configuration. This function includes 18 subfunctions: UnderRun Protect, Overburn, Read Error Skip, Format HDD, Verify HDD, Burn-in, Update Firmware, Compare Firmware, H/W Diagnostic, Load Default, CD+G, ISRC & MCN, USB Option, CD-TEXT, Password, Disc Counter, Auto Save Image, and Update Drive F/W. Refer to page 26 for the menu.

Now press **ESC** to return to Function 11. Then, **press ESC for 2 seconds** to enter Function 12-01 as the following figure shows.

```
12-01. Adv Setup
UnderRun Protect
```

### 5.12.1 UnderRun Protect

Now if you press **ESC**, you can enter Function 12 as the following figure shows.

```
12.Adv Setup
```

UnderRun Protect lets you control On and Off of Buffer Under Run Protection. Press **ENT** to enter the following figure. The default is On. Press ▼ to select Off.

```
UnderRun Protect
On
```

### 5.12.2 Overburn

Now press **ESC** and ▼ to enter the following figure. Overburn lets you decide whether to copy beyond the limit of the CD or not.

```
12-02. Adv Setup
Overburn
```

Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On. Overburn may cause a DVD writer to be damaged and data incomplete.

```
Overburn
Off
```

### 5.12.3 Read Error Skip

Now press **ESC** and ▼ to enter the following figure. Read Error Skip is to ignore any error that occurs during copying. Under normal circumstances, when an error occurs during copying, a message will appear on LCD. Yet, you can use Read Error Skip to copy some defective DVDs.

```
12-03. Adv Setup
Read Error Skip
```

Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.

```
Read Error Skip
Off
```

### 5.12.4 Format HDD

Now press **ESC** and ▼ to enter the following figure. Format HDD is to partition the hard disk. But before formatting, all data on the hard disk will be deleted.

```
12-04. Adv Setup
Format HDD
```

Press **ENT** to get the next figure. If you format once more, the old data will be lost.

```
HD Partition
SizeSelect? DVD
```

| CD | 1GB |
|--------|------|
| DVD | 5GB |
| DVD DL | 10GB |
| HD | Auto |
| BD | Auto |

If your copy controller doesn't connect with a hard disk, LCD will show the message as follows.

```
There is no HDD!
```

### 5.12.5  Verify HDD

Now press **ESC** to return to Function 12, and then select part 5 Verify HDD as the following figure shows. Verify HDD is to verify if the hard disk or any of its partitions can work well.

```
12-05. Adv Setup
Verify HDD
```

Press **ENT** to enter the next figure. Use ▲ ▼ to confirm Disk or Parti.

```
Verify Disk or
Partition? Disk
```

Press **ENT** to verify. After verification LCD will show the results as follows.

```
Verify Hard Disk
OK!
```

### 5.12.6   Burn-in

Now press **ESC** and ▼ to enter the following figure. Burn-in is to simulate the copying progress many times. The time can be from 1 to 1000. After each cycle of simulation, the DVDs on the DVD writers will eject automatically and recede for the next bout of simulation.

```
12-06. Adv Setup
Burn-in
```

Press **ENT** to enter the next figure. Test is simply a simulation.

```
Burn-in
Test
```

Press **ENT** and use ▲ ▼ to select the time of simulation such as 1, 2, 3...1000 or Run Continuous. The figure below shows Run Continuous.

```
Sel burn-in num:
Run Continuous
```

Press **ESC**, **ENT**, ▼ to select Erase & Copy as the following figure shows. Erase & Copy is to erase and write repeatedly. It is only for DVD rewriteable discs.

```
Burn-in
Erase&Copy
```

Press **ENT** and use ▲ ▼ to select the time of simulation such as 1, 2, 3...1000 or Run Continuous. The figure below shows Run Continuous.

```
Sel burn-in num:
Run Continuous
```

### 5.12.7  Update Firmware

Now press **ESC** and ▼ to enter the following figure. Update Firmware  is to update firmware to the latest version. But you should get the version first.

```
12-07. Adv Setup
Update Firmware
```

You can get the newest firmware version from ACARD by e-mail, or download it directly from the web site: **http://www.acard.com**  Then, unzip the file of .zip and copy it into a CD-RW. If the file is .bin, you don't need to unzip.

After placing the DVD into the DVD-ROM , press **ENT**. The system will begin searching the new firmware and show the message on LCD as follows after it finds the new firmware. Then press **ENT** to update.

```
Searching F/W---
XXX/XXXXX
```

### 5.12.8  Compare Firmware

Now press **ESC** and ▼ to enter the following figure. Compare Firmware is to compare the current firmware version and the newly downloaded version. It can prove if the downloaded version is the newest one.

```
12-08. Adv Setup
Compare  Firmware
```

### 5.12.9  H/W Diagnostic

Press **ESC** and ▼ to enter the next figure. H/W Diagnostic is to test the system.

```
12-09. Adv Setup
H/W  Diagnostic
```

Press **ENT** to enter the next figure, and begin the LCD test. After that, the system will do the button test, self-test of SDRAM, the hardware connection test and flash test. All test results will be shown on LCD. It is the easiest way to know if the system can work well.

```
LCD Test Start
```

When all tests finishes, LCD will show the message as follows.

```
Test  finished
```

### 5.12.10  Load Default

Now press **ESC** and ▼ to enter the next figure. Load Default is to make all changed settings return to defaults.

```
12-10. Adv Setup
Load Default
```

Press **ENT** to enter the next figure. Use ▲ ▼ to confirm Yes or No.

```
Load Default
Config? Yes
```

When default loading finishes, LCD will show the results as follows.

```
Load Default
OK
```

### 5.12.11  CD+G

Now press **ESC** and ▼ to enter the following figure. CD+G is a kind of special copying format. This function supports this special format.

```
12-11. Adv Setup
CD+G
```

Press **ENT** to enter the next figure. The default is Off. Press ▼ to select On.

```
CD+G
Off
```

### 5.12.12  ISRC & MCN

Now press **ESC** and ▼ to enter the following figure. ISRC and MCN are special copying formats. This function supports them.

```
12-12. Adv Setup
ISRC & MCN
```

Press **ENT** to enter the next figure. The default is Off. Press ▼ to select On.

```
ISRC & MCN
Off
```

### 5.12.13 USB Option

Now press **ESC** and ▼ to enter the next figure. USB Option lets you switch to the USB mode if your copy controller has connected with a PC.

> **12-13. Adv Setup**
> **USB Option**

Press **ENT** to enter the following figure. The default is Off. Press ▼ to select On.

> **USB Option**
> **Off**

When USB option is On, the original "12. Adv Setup" will change to "13. Adv Setup", and the hidden "12. USB Mode" will appear in the first layer of function menu. See P.105 for details.

### 5.12.14 CD-TEXT

Now press **ESC** and ▼ to enter the following figure. CD-TEXT is a kind of special copying format. This function supports this special format.

> **12-14. Adv Setup**
> **CD-TEXT**

Press **ENT** to enter the next figure. The default is Off. Press ▼ to select On.

> **CD-TEXT**
> **Off**

### 5.12.15  Password

Now press **ESC** and ▼ to see the following figure. Password is set to protect your copy controller.

```
12-15. Adv Setup
Password
```

Press **ENT** to see the following figure. The default is Off.

```
Password
Off
```

Press ▼ to see the following figure. Change means to change a preset or an old password into a new one.

```
Password
Change
```

Press ▼ to see the following figure.

```
Old Password
?
```

Use ▲ ▼ to key in the default, 85122290. A password should be composed of 1 to 13 characters. The character can be A, B, C, etc. or 1, 2, 3, etc. or the combination of both. After selecting a desired number or alphabet, remember to press **ENT**.

```
┌─────────────────────────┐
│ Old Password            │
│ 8?                      │
│                         │
└─────────────────────────┘
```

After keying in the old password, remember to press **ENT** to confirm. Then the following figure will appear.

```
┌─────────────────────────┐
│ New Password            │
│ ?                       │
│                         │
└─────────────────────────┘
```

Follow the rule mentioned above to key in a new password. After keying in, the system will ask you to enter the new password again.

```
┌─────────────────────────┐
│ Re-Ent Password         │
│ ?                       │
│                         │
└─────────────────────────┘
```

When it is correct, you will see the following figure. You have 3 chances to enter your password. If you forget your password, return the copy controller to ACARD for help.

```
┌─────────────────────────┐
│ Change                  │
│ OK!                     │
│                         │
└─────────────────────────┘
```

### 5.12.16  Disc Counter

Press **ESC** and ▼ to see the following figure. Disc Counter records how many discs you have copied.

```
12-16. Adv Setup
Disc Counter
```

Press **ENT** to see the following figure. View means to see the records.

```
Disc Counter
View
```

Press **ENT**. JC in the following figure means Job Counter; that is, every copying task. It records the number of discs you have copied, and can be deleted.

```
JC OK: 000000001
Fail    : 000000000
```

**Attention**

There is another record of LC (Life Counter). It also records the number of discs you have copied so far, but cannnot be deleted. You can veiw the record of LC by holding down **ESC** when LCD shows the finding of writers. Press ▲ to leave.

Press ▼. The following figure shows the record in DVD writer 2. You can press▼ to see the records in other writers. This kind of record can be deleted, too.

```
02  OK: 000000001
Fail   : 000000000
```

Press ▲ to return to the record of job. Then press **ENT** to return to the next figure.

```
Disc Counter
View
```

Press ▼ to see the following figure. It is to delete the record in job. Use ▲ ▼ to confirm Yes or No.

```
Disc Counter
Del Job Counter
```

Press ▼ again to enter the following figure. Dev means the device of DVD writer.

```
Disc Counter
Del Dev Counter
```

Press **ENT** to see the following figure. If you want to delete the record in DVD writer 2, you can press **ENT**, otherwise press **ESC** to exit.

```
Del 02 Counter
Ent: Del    Esc: Exit
```

### 5.12.17  Auto Save Image

Press **ESC** and ▼ to see the following figure. Auto Save Image can save an image file automatically into your designated partition of HDD.

```
12-17. Adv Setup
Auto Save Image
```

Press **ENT** to see the following figure.

```
Auto Save Image
On
```

Press **ENT** to see the following figure. Use ▲ ▼ to select a partition in which there is no image file such as C.

```
Select Partition
No Image in C
```

Press **ENT** to see the following figure.

```
Set Partition to
C
```

### 5.12.18  Update Drive F/W

Now press **ESC** and ▼ to enter the following figure. **Only when you have installed some types of CD\DVD drives produced by ASUS or Plextor can this figure appear**. This function lets you udpate the firmware of some ASUS or Plextor CD\DVD drives. For the detailed types, visit the Web site:www.acard.com.

```
12-18. Adv Setup
Update Drive F/W
```

Press **ENT** to enter the next figure. No F/W File means that there is no file of firmware on the source CD. So, in the beginning you have to download the firmware of a certain type of CD\DVD drive from the Web site of ASUS or Plextor. Then record the firmware into a CD-RW.

```
No F/W File
```

# Chapter 6　Troubleshooting

## 6.1　About LCD

After you power up, if there is no display on the LCD, check if the connection of power cord is firm and the environment of power outlet is normal.

## 6.2　About Error Messages

During Copy, Test, Compare and Verify, etc. if you press **ESC** to abort, an error message will appear on LCD. Abortion may cause the copy controller to hang up, therefore you have to power on again.

If reading fails, an error message will appear on LCD. Get a new source DVD to try again.

If the copy controller hasn't detected any device after powering on, an error message will appear on LCD.

## 6.3　About DVD-ROM/DVD Writers

If a DVD-ROM or a DVD writer cannot read, confirm the format of the source DVD and check if it is damaged.

Use any DVD writer to read the source DVD. If it works, the DVD-ROM is probably defective or not compatible with the source DVD.

## 6.4 About Buttons

If you press any one of the four buttons on the panel, but there is no response, it is perhaps that the button cannot function well. Inspect the jumper setting.

## 6.5 About DVD Writer Not Readable

After copying if the DVD writer is not readable, use Compare to examine, or get another DVD-ROM to test.

## 6.6 About High Failure Rate

If the failure rate of copying is high, do the following things to improve.
●     Lower the speed of DVD writer.
●     Inspect if the blank disc's quality is good.
●     Update the firmware.
●     Inspect the DVD writer's maximum writing speed. If the speed is over 8X, copy the data to a hard disk first, and then transmit to DVD.

## 6.7 About Firmware Update

If you cannot update the firmware, please inspect the firmware. Perhaps you have downloaded a wrong file.

Failure in firmware update may cause the copy controller to fail in booting. Under the circumstances, return the control board to distributor for repair.

## 6.8  About Function 12 and Cancellation

If you want to execute function 12 Advanced Setup, you can press **ESC** for 2 seconds. And during operation if you want to cancel a function like Copy, Test, Verify and so on, you can press **ESC** for 2 seconds, too.

# Appendix A    LCD Messages

## 1. Normal Conditions:

**All data will be lost, erase?**.........All data on the disc will be lost. Confirm the erasing of data.

**Analyzing**.........................................................................Analyze the source disc.

**Audio Disc!!! Can't compare!**............... The system cannot compare the audio discs.

**Cannot read TOC**............................... The system cannot read the contents of disc.

**Check Target Please Wait** .........................The system is checking the target device.

**Detect Drives**.............................Detect what drives are connected with the system.

**DVD-RW does not Support the Func**.......... DVD-RW doesn't support this function.

**Erase Finished**................................................. The erasing of data comes to an end.

**Erasing disc**.............................................The system is erasing the data on the disc.

**Fail to get Drive Info!**.................................. The drive information cannot be obtained.

**Fail to get Src Disc Info!**............. The information of source disc cannot be obtained.

**Hold ESC to exit**................................. Press **ESC** for a second to terminate the test.

**Identical**.......................................................... The comparison results are the same.

**Initialize SDRAM**...........................................Initialize the memory of the system.

**Load Default Config?**...............................Do you want to load the default settings?

**No Erasable Disc in DVD-RW!!**.......The disc on the DVD-RW device is not rewritable.

**Preparing**........................................................... The system is preparing to record.

**Press a Key to Eject Fail Disc**......Press any key to eject the failed disc after copying.

**Press a Key to Eject Good Disc**... Press any ket to eject the good disc after copying.

**Read disc error** ....................................During comparison the disc cannot be read.

**Save new config Fail!**................ The new setting of configuration cannot be saved.

**Source Disc Empty!!!**.............................. The source disc doesn't contain any data.

**Source Disc Not Ready**....................................... Source disc is not ready to be read.

**Source Drive Not Ready**.......................................Source drive is not ready to read.

**Src&Tgt can't in the same channel**.....During comparison the source and target discs cannot be in the same channel.

**Target Disc Not Empty!!!**.......................................... The target disc still has data.

**Target Disc Not Ready**............................ Target disc is not ready to be written into.

**Target Drive Not Ready**.......................................Target drive is not ready to write.

**Target overflow**............... The target disc hasn't enough capacity to store new data.

**TOC not match**........................................ The comparison results are not the same.

**User Abort!**...........................................................Cancel the job during operation.

## 2. Connecting with a HDD:

**All data will be lost, format?**.......All data on the hard disk will be lost. Confirm the formatting of hard disk.

**Delete Image in Partition xx?**....Confirm the deleting of data image in partition xx.

**Format HDD?**.......................................... Ask if you want to format the hard disk.

**Format HDD OK!** ........................The Formatting of hard disk has been completed.

**HDD not Format!**.......................................The hard disk hasn't been formatted yet.

**HDD too small** ............................................ The capacity of hard disk is too small.

**HDD too small to handle image!**.........The hard disk hasn't enough capacity to store the data image (at least 5Gbytes).

**Image Exists Overwrite?**........There is a data image in the current partition. Confirm the overwriting of data.

**Image load Fail**......The image isn't successfully loaded from DVD to the hard disk.

**Image load OK**.......... The image is successfully loaded from DVD to the hard disk.

**No Image in Partition xx**...............................There is no data image in partition xx.

**No Valid HDD!**................................................. The system cannot find a hard disk.

**Partition Damage**................................................................The partition is damaged.

**Select HD First!**.............................................. Select a formatted hard disk at first.

**Verify Disk or Partition?**..... Do you want to verify the hard disk or just a partition?

**Verify Hard Disk Fail!**............................ The hard disk is not verified successfully.

**Verify Hard Disk OK!**.................................. The hard disk is verified successfully.
**Verify Partition Header!**.................................................. Verify the partition header.

## 3. Audio Editing:

**Burn or Move to partition?**................ Do you want to directly copy the data into disc or move them to the partition.

**Can't edit HDD.**.................... The hard disk cannot be edited as a source audio disc.

**Close all disc's session?.**.................................. Confirm the closing of disc sessions.

**Continue edit next Disc?**.............. Ask if you want to continue the music disc editing.

**End edit disc and burn?**.................... Finish the music disc editing and start to copy.

**Erase selected Tracks?**.............................. Abort the selected tracks and delete them.

**Ins empty disc  Continue?.**.. Do you want to insert a blank disc and continue copying?

**Insert next disc.**.................................................................. Insert the next audio disc.

**NO AUDIO track in this disc**.......................... The source disc has no audio track.

**Sessions were closed already!**................ The disc sessions have already been closed.

**Target Overflow  Re-Select**........... The disc capacity is not enough to store the selected tracks. Please select again.

**Tgt overflow, del last trk?.**......... The disc capacity is not enough to store the selected tracks. So, do you want to delete the last track?

## 4. Firmware Update:

**Check Sum Error!.**................................................. The udpated firmware has errors.

**Flash ROM fail!.**........................................ Data cannot be written into Flash ROM.

**Invalid firmware**................................ The disc doesn't contain a valid firmware.

**Last update F/W Fail!**.............................. The firmware is not updated successfully.

**Last update F/W OK!**.................................. The firmware is updated successfully.

**Searching F/W** .................................. The system is searching for a valid firmware.

**Source can't be Hard Disk!**.......During comparison the source cannot be hard disk.

**Update F/W xxx to yyy?**...... Do you want to update the firmware version from xxx
to yyy?

**Updating F/W**..............................................The system  is updating the firmware.

# Appendix B    USB Link Host

## B.1  The Connection

Connect one end of the USB 2.0 cable to the USB port of the computer, and the other end of the cable to ARS-2037P. Then you can enjoy the fast transfer rate of 480Mbps.

USB Cable
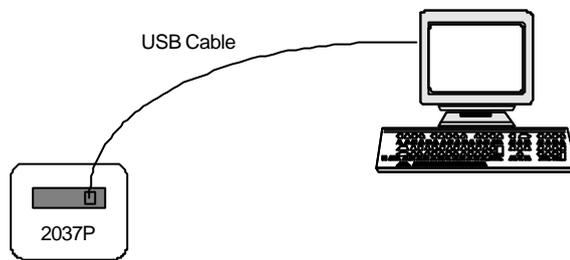
2037P

Figure 1

The following figures show the situation before and after connection.

1. Before connecting ARS-2037P to PC, there are one HDD and a DVD-ROM.
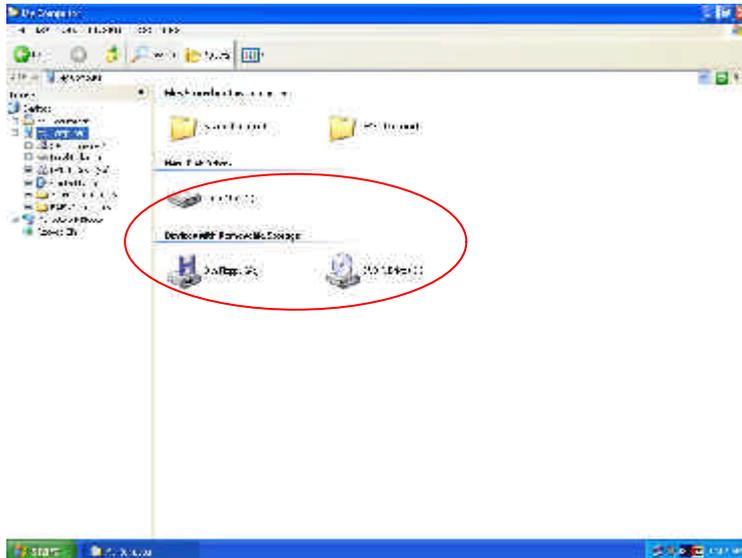
Figure 2

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2. After connecting ARS-2037P to PC via USB, OS found new devices.
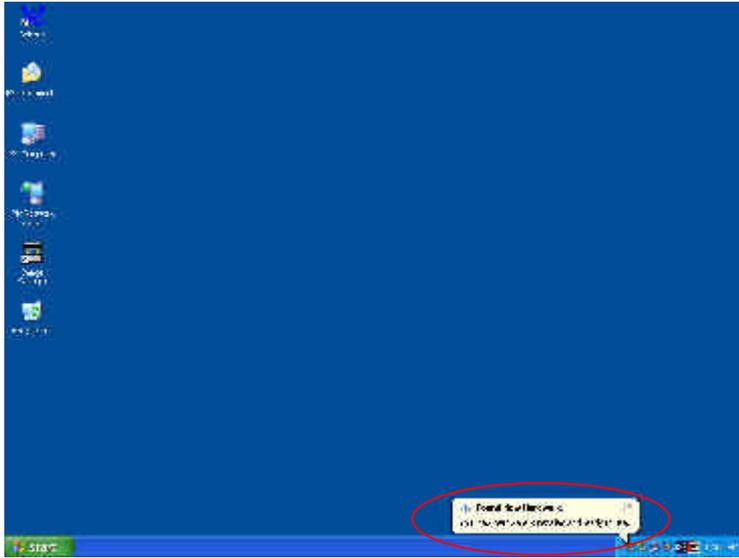
Figure 3

3. The hard drive and the writer connected to ARS-2037P are found.

Figure 4

93
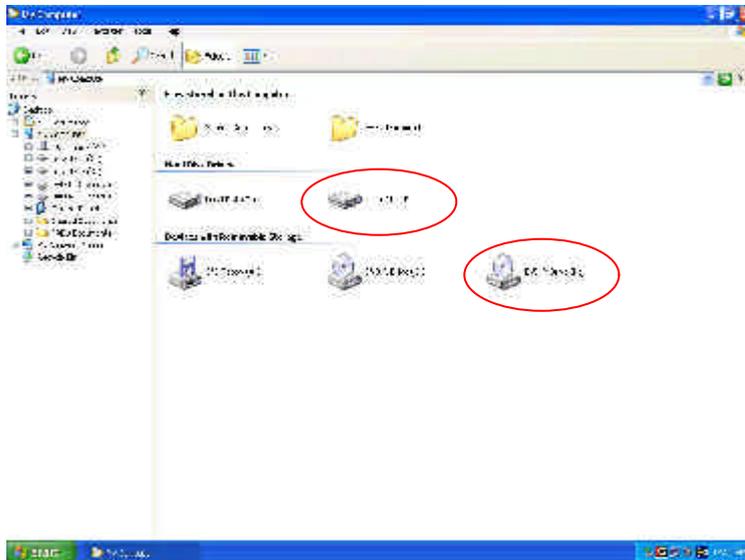
There are two ways to enter "USB L. H Mode": auto and manual.

**Auto**: ARS-2037P has the function of auto link. It will enter "USB L.H Mode" simply by connection the USB cable to the USB port of the PC.

**Manual**: In "12. USB Mode" press **ENT** to go to the next figure.

```
Switc USB Mode?
Yes
```

Press ▼ to select Yes, and enter the following figure.

```
USB L.H Mode
D1: HDD    D2:D-RW
```

Press ▼ to see the following figure. Here you can decide to return to SA (standalone) mode or not by using ▲ ▼.

```
Copy Mode
```

Press ▼ again to see the following figure. You can choose DVD-ROM or HDD or disable by using ▲ ▼. When you choose HDD, you can transmit those image files stored in the computer to the hard drive connected with the copy controller via Image Manager, and then copy them to the disc in the writer after returning to SA mode.

```
D1  Drive  Select
```

Press ▼ again to see the following figure. You can choose the writer or disable by using ▲ ▼. When you choose the writer, you can copy some files stored in the computer directly to the disc in the writer via ACARD Ha! DVD Burner or any other recording software.

```
D2  Drive  Select
```

## B.2  Using Image Manager

Through Image Manager you can transmit those image files stored in the computer to the hard drive connected with ARS-2037P. Follow the steps below to do.

1. Be sure that PC has been connected with ARS-2037P via the USB cable.
2. Be sure that ARS-2037P is in "USB L.H Mode".
3. After entering Image Manager, click the icon of the last host card to see the newly connected hard drive. The last host card has no title, but it represents the hard drive connected with ARS-2037P.



Figure 5

95

4. In Figure 5 click "Image Manager" to enter the next figure. That means the connection of ARS-2037P and PC.
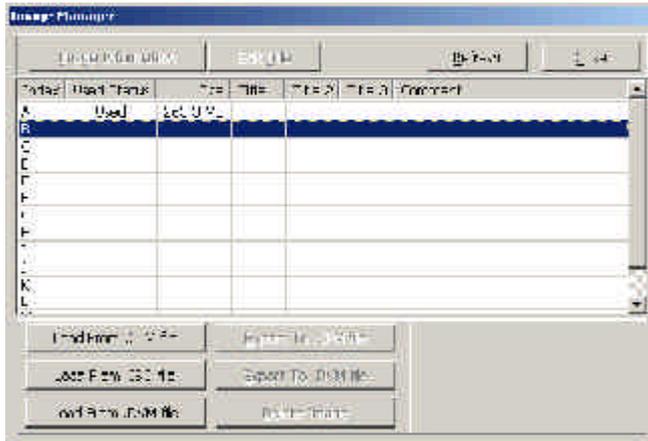


Figure 6

The combination of ARS-2037P with Image Manager has three functions: (1) transmit image files from PC to the hard drive of ARS-2037P, (2) transmit image files from the hard drive of ARS-2037P to PC, (3) edit the titles of image files on the hard drive of ARS-2037P.

(1) Transmit image files from PC to ARS-2037P

a. In Figure 6 choose a blank partition like B in the hard drive of ARS-2037P to store the image files sent from PC. The file format should be .cpm, .iso or .dvm.

b. Now suppose you want to choose an image file of 1.iso and click "Open".
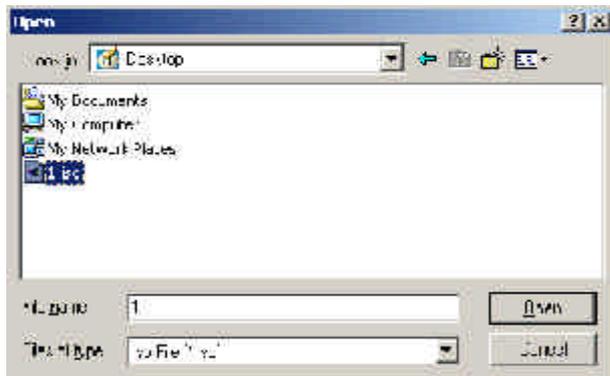


Figure 7

c. The following figure shows the transmission of an image file.
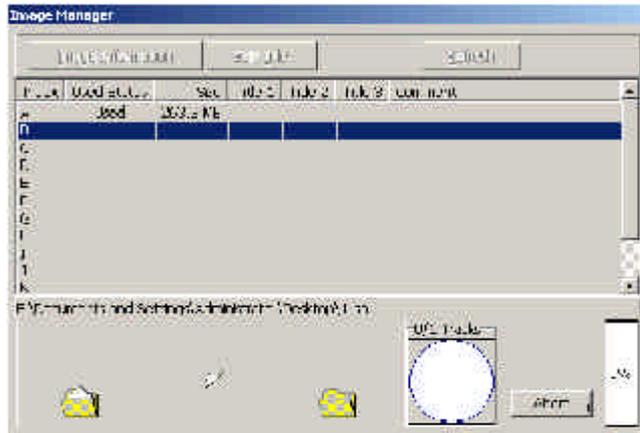


Figure 8

d. If the transmission is successful, there will be a message showing so.



Figure 9

e. Now in partition B you can see the exported file.
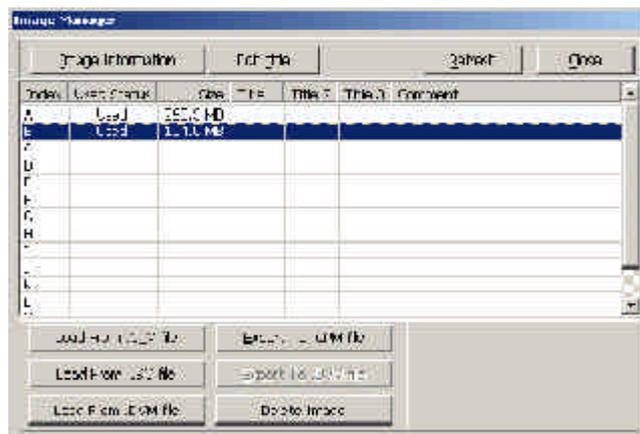


Figure 10

(2) Transmit image files from the hard drive of ARS-2037P to PC

a. Choose an image file as the following figure shows.
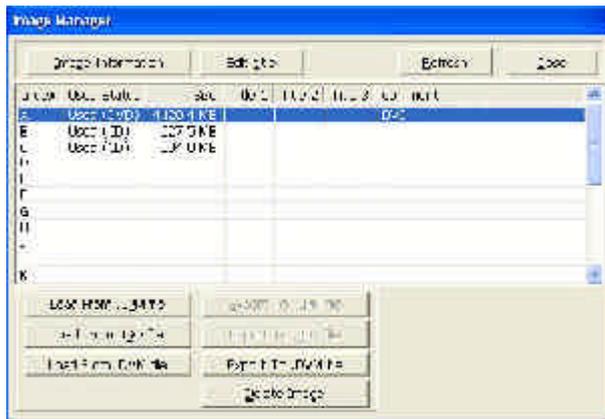
Figure 11

b. Specify a folder and give the file a name.
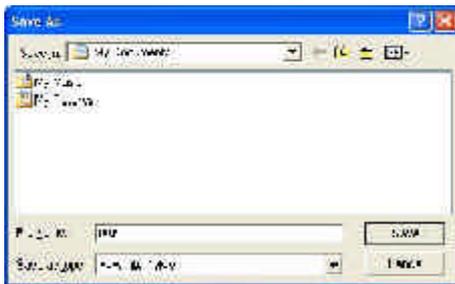
Figure 12

c. The following figure shows the transmission of a file to PC.

Figure 13

98
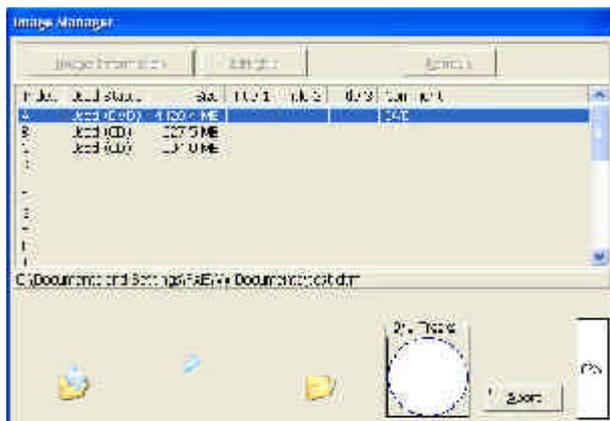
(3) Edit the titles of image files on the hard drive of ARS-2037P

a. In Figure 10 click "Edit title" to edit the titel of the file. You can edit three titles at most, and decide whether to give a comment or not.
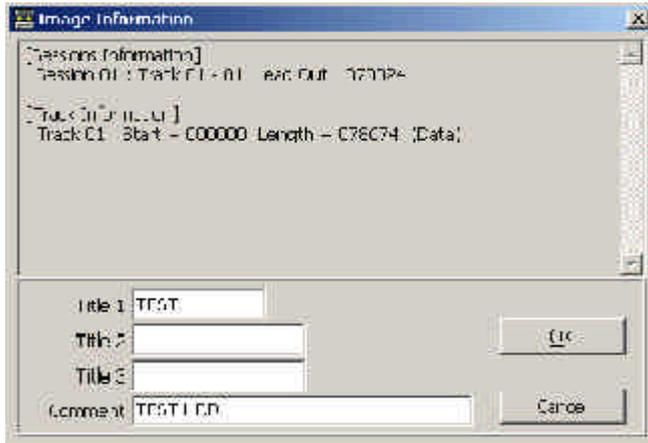


Figure 14

b. After editing, click "OK" to enter the following figure.
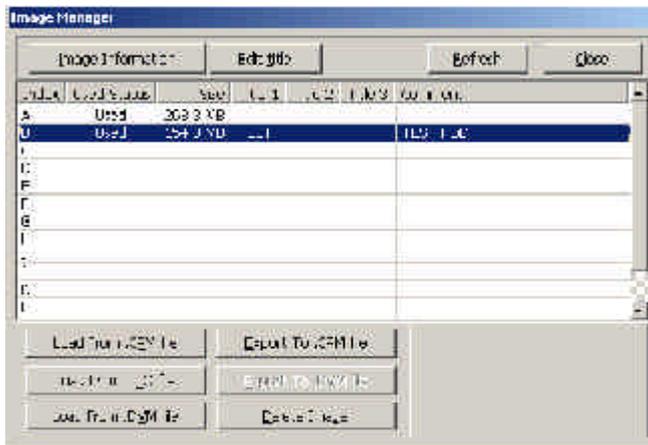


Figure 15

The recording of image files can increase stability and data correctness.

## B.3   Using Ha! DVD Burner

The recording software, Ha! DVD Burner contains three main parts: CD, DVD and Tool. It supports a CD\DVD writer with IDE or SCSI or USB2.0 interface, and those disc formats of CD-R, CD-RW, DVD-R, DVD-RW, DVD+RW, DVD+R DL, etc. Its intelligent interface makes data recording quick and accurate.



Figure  16

The combination of ARS-2037P with Ha! DVD Burner has two functions: (1) the writer connected to ARS-2037P can be an external writer for PC, and you can use Ha, DVD Burner to record directly; (2) Ha! DVD Burner makes those image files of .cpm and .dvm for ARS-2037P.

Visit http://www.acard.com and download Ha! DVD Burner and its manual.

Follow the steps below to make an image file.

1. Click the icon of Ha! DVD Burner on the desktop. Choose "DVD Copier".



Figure 17

2. Click "Next".
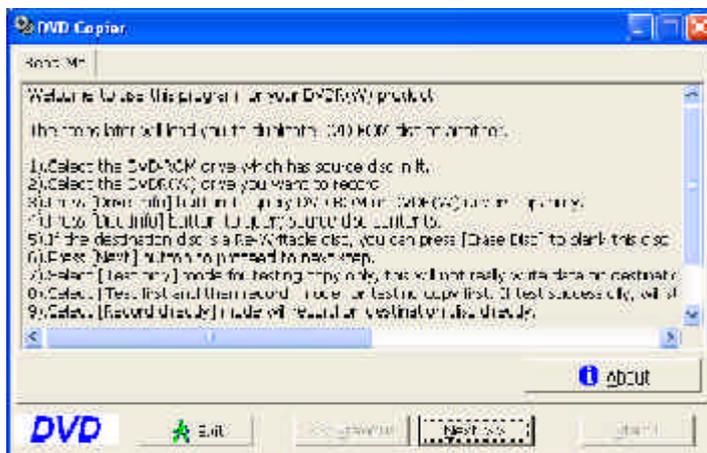


Figure 18

3. In the main window of DVD Copier, choose "Disk file (.dvm)" as Destination, and click "Browse".



Figure 19

4. Speficy a folder and give the file a name. Then click "Save".



Figure 20

5. Return to the main window, and click "Next".



Figure 21

6. Click "Start" to record.



Figure 22

# Technical Support Form

Email: **support@acard.com**

http://www.acard.com

| **Model** | ARS-2030A/2035A/2037P | **F/W Ver.** | |
|---|---|---|---|
| Channel | Model | F/W Version | |
| DVD-ROM | | | |
| DVD Writer | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Hard Disk Model/type | | | |
| Capacity | | | |
| Firmware  version | | | |
| Others | | | |
| | | | |
| Problem Description | | | |
| | | | |