



# U-Reach



# MD Series Duplicator

User Guide

V3.10

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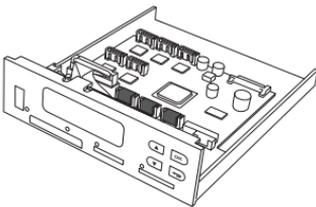
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## 1. Features

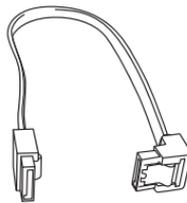
- Multi-Session, MultiDisc, Disc Spanning, Disc to Disc duplication.
- Independent 11, 8, 4 SATA port, can really achieve high speed 1-10, 1-7, 1-3 DVD/Blu-ray Duplication.
- High speed DDR2 SDRAM.
- Support various Flash media interface, ex: USB, SD, CF, MicroSD....
- Support high speed 20X DVD, 52X CD, and 8X Blu-ray burning.
- High compatibility with variety brands of burners.
- Special blue light LCD display.
- Support built-in HDD to load disc images.
- Easy operation for separate DVD and Flash to DVD duplication.
- Support Lightscribe printing.

## 2. System Overview

### 2-1. Package Content



Controller

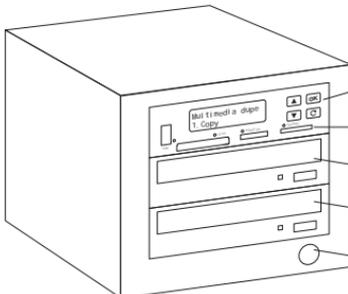


SATA Cables



User Manual

### 2-2. MD Series Duplicator



Control Button

Card Reader

CD/DVD Reader

CD/DVD Writer

Power Button

# I. Introduction

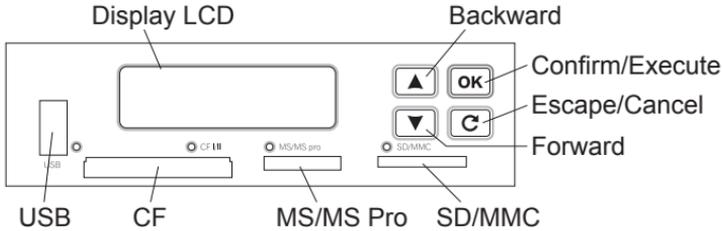


MD801

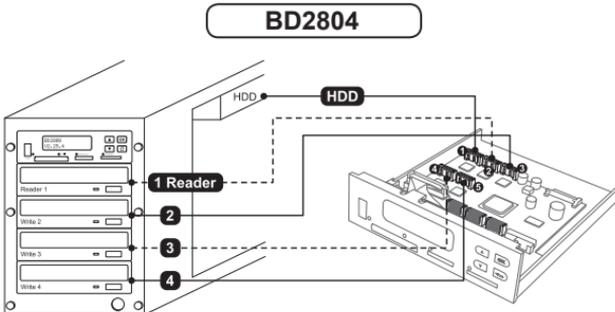
MD803

MD807

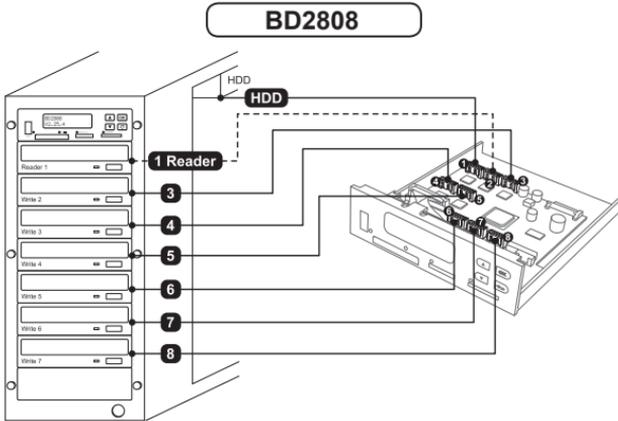
## 2-3. Display Interface



## 2-4. Installation of MD Series Controller



# I. Introduction

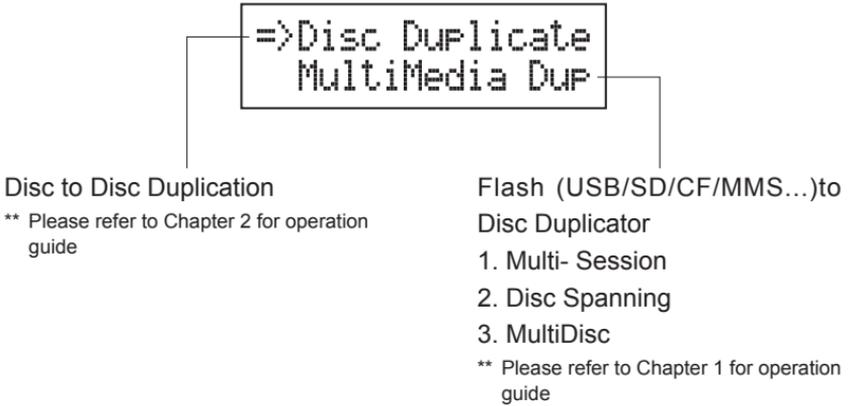


- \*\* Each SATA port is independent (without Master and Slave port).
- \*\* If HDD is available, HDD should connect to port No.1, if no HDD installed, Reader should connect to port No.1, and other drives should connect to the rest ports in order.

# I. Introduction

## 2-5. Main Function Structure

There are two main functions of MD series, one is Disc (CD/DVD/Blu-ray) Duplication, and another one is Flash (USB/SD/microSD/MMS..) to Disc Duplication.



**There are three main copy modes for Memory card or USB copy to CD/DVD disc:**

- Multi-Session: Allows all different types of memory cards with small data to backup to one disc.

Ex:



Note:

Only ONE Flash device can be applied per time.

# I. Introduction

- Disc Spanning: A big capacity memory card with large data can copy to several discs.

Ex:



Note:

Disc Spanning does not support copy the Flash device with only ONE single big file.

- MultiDisc: Allows you to duplicate discs from one Flash device.

Ex:



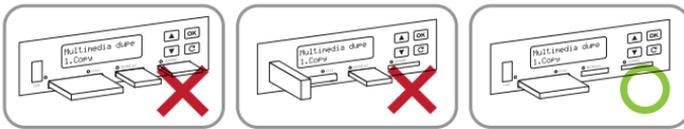
# I. Introduction

## Example of Multi-Session, MultiDisc and Disc Spanning

	Flash Source	Multi-Session	MultiDisc	Disc Spanning	Note
1	USB with 100MB data copy to a CD	First session of CD1	Yes, as many blank discs as you can	No	Flash device with small data can make multi-session copy
2	SD card with 200MB data copy to a CD	Second session of CD1	Yes, as many blank discs as you can	No	
3	USB with 8G data copy to CDs or DVDs	No	No	2 DVDs or 11 CDs	Flash device with only ONE single big file can not do disc spanning.

## 2-6. Reminding:

1. Disc Spanning does not support copy the Flash device with only ONE single big file.
2. Disc spanning can not execute with Multidisc mode at the same time, when both modes are enable, the system will primary execute disc spanning.
3. Each disc will keep some blank space between each session and also remain some blank space for the end of copy.
4. ONLY ONE Flash device can be applied per time.



5. This duplicator can copy all kinds of Flash Media (Memory Card and USB) which support FAT12, 16, 32 file format. It is unable to do Non FAT Flash media copy.
6. When the system is in process, DO NOT pull out the card.
7. CD can only copy to CD, DVD copy to DVD.



## II. Function (Multimedia Duplicator)

### Function Table-Multimedia Duplication

<b>Multimedia Dupe</b>		When you select Disc duplicate, you will enter the disc to disc menu; if you choose Multimedia Dupe, you will only access the Flash to disc menu.		
<b>Function</b>	<b>Sub-function</b>	<b>Description</b>		
1. Copy		To copy Flash to disc		
2. Compare		To compare Flash source and copied discs for ensuring data correctness.		
3. Copy+Compare		To copy first and then compare Flash source and copied discs.		
4. Information	USB/Card Info.	To show Flash device's used space, total capacity and file quantity.		
	Disc Info.	To show disc's burning speed, format and capacity.		
	System Info.	To show the duplicator's model No., firmware version.		
	Burn Speed	To adjust the burning speed of disc.		
5. Utility	Update BIOS	To update the system firmware		
6. Setup	Multi Session	To enable or disable multi-session mode		
	Disc Spanning	To enable or disable disc spanning mode		
	MultiDisc	To enable or disable multidisc mode		
	Advanced setup	1. CD Spare Size	To set spare size to preserve the outside space of discs not to be written.	
		2. DVD Spare Size		
		3. BD Spare Size		
		4. Time Zone	To setup the proper time zone of working place.	
5. Language	To set the language you prefer to use during operation.			
6. Factory Default	To reset all the setting to manufacturer default setting			

## II. Function (Multimedia Duplicator)

### Chapter 1. MultiMedia Duplication

Select Multimedia Dupe from the main menu and press **OK** to start Flash to disc copy operation.

```
Disc Duplicate
=>MultiMedia Dupe
```

#### 1. Copy

The copy function in Multimedia duplication part has three main options: Multi-Session, Disc Spanning and MultiDisc. Each mode can be enable or disable in Setup function. (please refer to [6.Setup](#), page 17)



**\*\*Note:**

Before copying, it is recommended to check each memory card, USB or CD/DVD's content information. The check function please refer to [4. Information](#), page 14.

1. Plug a Flash device (ex: USB, SD, MMS...) into the proper slot as source and place a disc into burner as target for duplication. If you like to copy many discs at the same time, you can place more than one blank disc into the RW drives.
2. Select [1.Copy](#) and press **OK** to start copying.

```
MultiMedia Dupe
1.Copy
```

3. The system will detect the source and the target disc automatically.

Total capacity	Data size
USB 497M(256M)	
Writing disc...	

	Data size
USB	256M
79%	150M

Copy process% Copied data size

## II. Function (MultiMedia Duplicator)

4. When the copy task has finished, the system will close the session.

```
Write Disc 256M
Finalizing Disc
```

```
Write Disc 256M
Complete!
```

5. The disc will be ejected, and you can continue to copy another memory card or USB, or you can keep it for next copy task.



**\*\*Note:**

- 1** As long as the disc was a multi-session disc, it will not support disc spanning copy.
- 2** If the data size is larger than the disc's capacity, the system will require you to put more than one disc. Please make sure the disc spanning function is enabled, you can set it up in [6-2. Disc spanning](#), page 17.
- 3** Rewritable disc does not support multi-session copy. Due to the feature of CD±RW and DVD±RW rewritable format, the first session can be copied successfully, but when you want to build up the second one, the system will erase the first session of +RW format disc, and an error message "Not Blank Disc" for -RW format disc.

### In Disc Spanning Mode:

1. Plug a Flash device (ex: USB, SD, MMS...) into the proper slot as source and place a disc into burner as target for duplication.
2. Select 1. Copy and press **OK** to start copying.

```
MultiMedia Dupe
1.Copy
```

## II. Function (Multimedia Duplicator)

- The system will detect the source and calculate how many discs will need.

```
Total    need
      11CD Discs
```

- After detecting, the system will start to copy.

Disc 1	Total discs needed	
WriteD1/11	97M	The data size for disc 1
TTL 7178M	5M	Copied data size

- When the first disc has finished copy, the disc will be ejected, and wait for next disc.

```
WriteD1/11  97M
Waiting Disc...
```



\*\* Note:

- Disc spanning can not execute with Multidisc mode at the same time, when both modes are enable, the system will execute disc spanning first.

## 2. Compare

The compare function has two different displays for the disc copied by Multi-Session and Disc Spanning.

- Plug a Flash device (ex: USB, SD, MMS...) into the proper slot as source and place a disc into burner as target for duplication.
- Select 2.Compare and press **OK** to start comparison.

```
MultiMedia DUpe
2.Compare
```

## II. Function (Multimedia Duplicator)

- The system will detect the source and the target disc automatically.
- After detecting, the system will start to compare.



- When the comparison has finished, press **OK** to go back to the previous menu.

```
Compare 509/509  
Complete !
```



**\*\*Note:**

- The compare function is to do file by file and bit by bit comparison. Therefore, compare speed will be affected by file quantity, total content size and Flash device's reading speed.
- While doing multi-session disc comparison, it is allowed only one disc to compare with the source.

### Disc Spanning Compare

- Plug a Flash device (ex: USB, SD, MMS...) into the proper slot as source and place a disc into burner as target for comparison.
- Select 2. Compare and press **OK** to start comparison.
- The system will detect the source and the target disc automatically.
- After detecting, the system will start to compare.

```
Compare 61/436  
Disc 1/2 55%
```

## II. Function (MultiMedia Duplicator)

---

- When the comparison has finished, press **OK** to go back to the previous menu.



Compare 436/436  
Complete !

### 3. Copy + Compare

This function is to make a copy first and then compare the copied discs with source immediately once the copy task has finished.

### 4. Information

Before copying, it is recommended to use this function to check each memory card, USB or CD/DVD's content information. You can check Flash device's information (ex: used space, file quantity..) and disc's information (ex: burn speed supported, total capacity and content size..) in this function.

#### 4-1. Flash Device Information

- Plug a Flash device (ex: USB, SD, MMS...) into the proper slot.
- Select 4.Information and press **OK**.



MultiMedia Dupe  
4.Information

- Select 1.USB/Card Info. and press **OK** to check the device's information.



[Information]  
1.USB/Card Info.

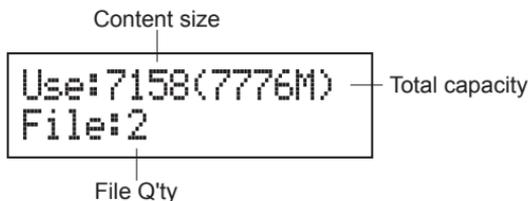
- The system will detect the device automatically.



Check Device...

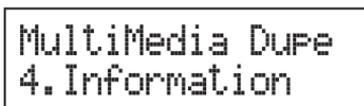
## II. Function (MultiMedia Duplicator)

5. After detecting, the information of the device will show up. The information includes used space, total capacity and file quantity.

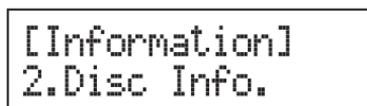


### 4-2. Disc Information

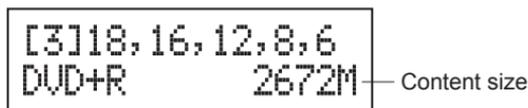
1. Place a disc into a drive.
2. Select 4.Information and press **OK**.



3. Select 2.Disc Info. and press **OK** to check the disc's information.



4. The system will detect the disc automatically.
5. After detecting, the information of the disc will show up. The information includes the burning speed supported, disc format and content size.



### 4-3. System Information

This function show the system's information which includes the model No., and firmware version.

## II. Function (MultiMedia Duplicator)

---

1. Select 4.Information and press **OK**.

```
MultiMedia Dupe
4.Information
```

2. Select 3.System Info. and press **OK** to check the system's information.

```
[4.Information]
3.System Info.
```

3. The system information will show on the LCD.

```
BD2808
V2.25.4
```

### 5. Utility

This function will update the firmware of this system by using certified update firmware which released by manufacturer.

1. Apply for the firmware from your local distributor.
2. Unzip the firmware and save it in a USB drive.



**\*\*Note**

DO NOT save the firmware in a folder. The system can not detect the firmware if you save it in a folder.

3. Select 5.Utility and press **OK**.

```
MultiMedia Dupe
5.Utility
```

4. The system will start to execute updating task.

```
[Update Process]
Writing...
```

## II. Function (MultiMedia Duplicator)

- When updating has finished, the system will ask you to reboot it.

```
TURN OFF, WAIT 5  
Second, TURN ON
```

### 6. Setup

This section allows you to setup the multi-session, disc spanning, multidisc, disc burning speed and advanced setup.

#### 6-1. Multi-Session

- Select 6.Setup and press **OK**.

```
MultiMedia Dupe  
6.Setup
```

- Select 1.Multi-session and press **OK**.

```
[6.Setup]  
1.Multi Session
```

- Use **▲** / **▼** to enable or disable the copy function.

```
[Multi Session]  
Enable
```

```
[Multi Session]  
Disable
```

#### 6-2. Disc Spanning

- Select 6.Setup and press **OK**.

```
MultiMedia Dupe  
6.Setup
```

## II. Function (MultiMedia Duplicator)

2. Select 2.Disc Spanning and press **OK**.

```
[6.Setup]
2.Disc Spanning
```

3. Use **▲** / **▼** to enable or disable the copy function.

```
[Disc Spanning]
Disable
```

```
[Disc Spanning]
Enable
```



\*\* Note:

Disc spanning can not execute with Multidisc mode at the same time, when both modes are enable, the system will primary execute disc spanning.

### 6-3. MultiDisc

The MultiDisc copy mode allows you to duplicate discs from one Flash device. You can enable or disable this mode here.

1. Select 6.Setup and press **OK**.

```
MultiMedia Dupe
6.Setup
```

2. Select 3.MultiDisc and press **OK**.

```
[6.Setup]
3.Burn MultiDisc
```

3. Use **▲** / **▼** to enable or disable the copy function.

```
[Burn MultiDisc]
Yes
```

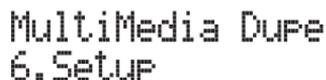
```
[Burn MultiDisc]
No
```

## II. Function (Multimedia Duplicator)

### 6-4. Burn Speed

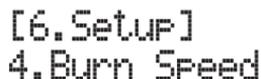
In this section, you can adjust CD, DVD and Blu-ray proper burning speed for duplication.

1. Select 6.Setup and press **OK**.



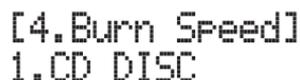
```
Multimedia Dupe
6.Setup
```

2. Select 4.Burn Speed and press **OK**.



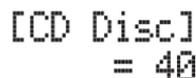
```
[6.Setup]
4.Burn Speed
```

3. Select 1.CD Disc and press **OK**.



```
[4.Burn Speed]
1.CD DISC
```

4. Use **▲** / **▼** to adjust the proper speed of the disc duplication. The burning speed of CD is from 1 to MAX. The default setting of burning speed of CD is 40X, DVD is 8X and Blu-ray is 4X.



```
[CD Disc]
= 40
```

### 6-5. Advanced Setup

#### CD/DVD/BD Spare Size

Due to the outside space of discs is not as easy to write as the inside space. Therefore, to keep a good quality of duplication, you can set spare size to preserve the outside space of discs not to be written.

## II. Function (Multimedia Duplicator)

---

### Time Zone

This setting allows you to setup the proper time zone of working place.



```
[Time Zone]
GMT+0
```

### Language

You can set the language you prefer to use during operation.

### Factory Default

You can reset all the setting to manufacturer default setting by this function.

## II. Function (Disc Duplicator)

### Function Table-Disc to Disc Duplication

<b>Disc Dupe</b>			When you select Disc duplicate, you will enter the disc to disc menu; if you choose Multimedia Dupe, you will only access the Flash to disc menu.
<b>Function</b>	<b>Sub-function</b>		<b>Description</b>
1. Copy			To copy disc to disc or copy disc from HDD.
2. Test			To simulate copy process
3. Compare			To bit by bit compare between source disc and copied discs
4. Copy & Compare			To copy first and compare the copied discs later.
5. Set Burn Speed			To set burning speed for duplication.
6. Select Source			To select source from any optical drive or hard disk drive.
7. Utility	1. Information	1. Disc Info.	To check the format of disc, burning speed supported and total capacity or data size.
		2. Drive Info.	To check the version, model No. and brand name
		3. System Info.	To check the model No. and firmware version
	2. Erase Disc	1. Quick Erase	To erase data from rewritable disc.
		2. Full Erase	To erase data from rewritable disc.
	3. PreScan Source		To check source disc's readability.
	4. Track Edit	1. Copy Track	To select and combine audio tracks from various CDs into a single customized audio CD.
		2. Close Disc	To close the disc after track copying to make the CD playable on CD player.
		3. Disc Info.	To check the audio CD's status of usage.
	5. Eject All Disc		To eject all trays.
	6. Copy Counter	1. Show Count	To check how many discs copy successfully and failed.
		2. Enable Counter	To enable or disable counter setting.
		3. Clear Counter	To delete the record.
	7. Update BIOS		To update the system's firmware.
	8. PRINT LS Label		To print Lightscribe image.

## II. Function (Disc Duplicator)

8. Setup	1. Auto Start Time		Allow the system to do the Copy, Test, Compare and Copy + Compare functions automatically
	2. Display Mode	1. Basic	
		2. Show Speed	
		3. Show Timer	
	3. Button Beep		
	4. Eject On Start	1. Eject All Discs	To eject all trays with disc inside when the system is booted up.
		2. Do Not Eject	No eject any tray or disc when the system is booted up.
		3. Eject Target Only	Only eject target trays with disc inside when the system is booted up
		4. Eject Source Only	Only eject source disc when the system is booted up.
		5. Eject All Trays	To eject all trays when the system is booted up.
	5. Reader Speed		To adjust the reading speed of source drive.
	6. Compare Speed		To adjust the speed of drives while comparing.
	7. Language		
	8. Clear Setup		To reset all the function back to manufacturer's default setting.
	9. Advanced Setup	1. Power On Time	To set a warm-up time from 5 seconds to 99 seconds.
		2. Startup Menu	To select which function you would like to show up in the beginning.
		3. Skip Reader Error	To set skip the read error and keep copying.
		4. Change Bad Master	To make the system eject source disc and ask for another one while the source disc is unreadable for system.
		5. CD Overburn	Set to copy overburn CD.
6. Show HDD Image Name		To show HDD image name or capacity on Copy, Test, Copy + Compare and Compare function	
7. Keep Buffer		To set enable or disable load source to the buffer.	
8. Boot Password		To enable or disable the user administrative password.	
9. Setup Password		To set up the login password.	

## II. Function (Disc Duplicator)

9. HDD Manager	1. Select Image	To select image file from HDD as your source for copy.	
	2. Disc=> Image	To load your source disc to the built-in HDD.	
	3. Set Reader Speed	To adjust the speed of source reader while you load data from the reader to HDD.	
	4. Show Image Info.	To check the disc format and data size of image file.	
	5. Rename Image	To change the name of image file.	
	6. Delete Image	To delete image file from the built-in HDD.	
	7. Show HDD Info.	To check the information of the built-in HDD includes how many discs are stored and the free space is available	
	8. Format HDD	To format the built-in HDD	
	9. Load & Copy	1. Synchronous	To load the source to HDD and make copy at the same time.
		2. Load First	To load source to HDD first and copy from HDD to disc.
3. OFF		To disable Load & Copy function.	

## II. Function (Disc Duplicator)

### Chapter 2. Disc Duplication

Select Disc Dupe from the main menu and press **OK** to start disc to disc copy operation.

```
=>Disc Duplicate
MultiMedia Dup
```

#### 1. Copy

It is important to make sure that your source disc is placed in the right drive. You can check or select your source reader by function 6.Select Source. (please refer to 6.Select Source, page 28)

1. Select 1.Copy and place source disc and blank discs into the proper trays. Then the system will detect the source disc and show the information.

```
1.Copy x 3 _____ Q'ty of target disc
Source:DVD4462M _____ Data size
```

2. Press **OK** to start copy

```
Q'ty of target
Copy x3 4462M _____ Data size
Speed of burning 10.0x 3% 163M _____ Copied data size
Copy process %
```

3. Once the copy task is finished, the copied discs will be ejected and the result of copy task will show on the LCD:

```
Copy 02:48 _____ Elapsed time
PASS 3 FAIL 0
```

## II. Function (Disc Duplicator)



**\*\*Note:**

Due to default setting of auto start time, the duplicator will start to copy automatically within a few seconds. You can set "OFF" to close the auto start function or set a longer waiting time. The default setting is 5 seconds. (About this setting please refer to [8-1. Auto Start Time](#), page 33 )

If HDD is selected to be the source reader, you have to upload the source to the built-in HDD and then follow the copy process to do your copy task. How to upload data from disc to HDD please refer to [9-2 Disc to Image](#), page 37.



**\*\*Note:**

The default setting of source reader is the first drive.

### 2. Test

This function will simulate the copy process to ensure error free duplication. During the simulation, there will be nothing left in the recordable discs.

1. Using / to select [2.Test](#) and press .

```
2.Test x 3
Source:DVD4462M
```

2. Press to start test

```
Test x3 4462M
10.0x 50% 163M
```

3. Once the test task is finished, the discs will be ejected and the result of the pass and fail discs for the test task will show on the LCD:

```
TEST 02:48
PASS 3 FAIL 0
```

## II. Function (Disc Duplicator)



\*\*Note:

- 1 This function is unable to support DVD+R blank disc.
- 2 If you use CD/DVD rewritable discs as your blank media in the simulation, all the content inside the discs will be erased permanently during test simulation.

### 3. Compare

This function will perform bit-by-bit comparison between source disc and copied discs to ensure the copied discs are identical to source disc.

1. Place source disc and blank discs into Reader and Writer separately.
2. Using ▲ / ▼ to select 2.Compare and press Ⓞ to start compare.

```
3.Compare x 3
Source: DVD4462M
```

3. The system will detect the source and target discs automatically.
4. After detecting, the system will start to compare.

```
Comparex3 4462M
0.0% 50% 08:12
```

5. When the comparison has finished, the system will show the compare result.

```
Compare
Finished !
```

```
Compare 05:06
PASS 3 FAIL 0
```

### 4. Copy + Compare

This function will to do copy task first and execute comparison automatically when copy process is finished.

## II. Function (Disc Duplicator)



**\*\*Note:**

In Copy, Test, Compare and Copy+Compare functions

- 1 If there is no source and target discs inside the duplicator, there will be nothing show on LCD.

```
1.Copy
Source:No
```

- 2 If the built-in HDD is selected as source, the information presents different:

```
1.Copy x 3
Source:H(A001)
```

 Image file name

- 3 The information display of these 4 functions will be different based on the display mode you selected.

(Please refer to [8-2.Display mode](#), page 34)

### 5. Set Burn Speed

You can adjust the burning speed of CD/Audio CD/DVD/DVD DL/Blu-ray by this setting. The default setting of CD is 40X, Audio CD 24X, DVD 8X, DVD DL 2X and Blu-ray 2X.

1. Using / to select 5.Set Burn Speed and press .

```
5.Set Burn Speed
```

2. Pressing / to adjust the burning speed of CD and press to confirm it, or press to select Audio CD,DVD, DVD DL or Blu-ray to adjust the burning speed.

```
[Burn Speed]
CD = 40
```

## II. Function (Disc Duplicator)

### 6. Select Source

You can set any drive or built-in HDD in the duplicator to be your source reader.

1. Using ▲ / ▼ to select 6.Select Source



6.Select Source

2. Press OK to check the current source reader, or select the proper drive to be the source reader by pressing ▲ / ▼, once the source reader is selected, press OK to confirm the setting and back to the menu list.



Source: [D#01]  
==> [D#01]



\*\*Note:

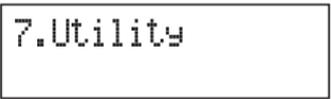
The default setting of source reader is the first drive.

## 7. Utility

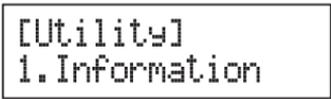
### 7-1. Information

You can check the information of disc, drive and system by this function. By pressing ▲ / ▼, each disc or drive's information will show on the LCD.

1. Using ▲ / ▼ to select 7.Utility, press OK to enter the sub menu. Then, select 1.Information and press OK.



7.Utility



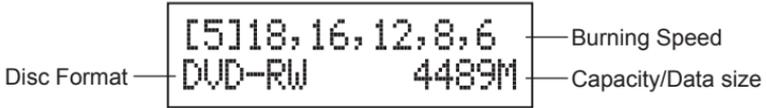
[Utility]  
1.Information

2. Using ▲ / ▼ to select 1.Disc Info. or 2.Drive Info. or 3.System Info., and press OK to see the related information.

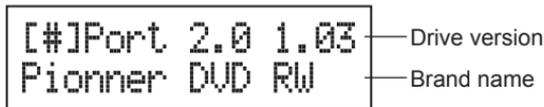
## II. Function (Disc Duplicator)

3. The information will show on the LCD as below:

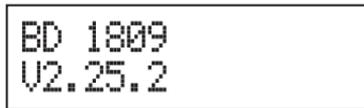
- Disc Info.: You can check the format of disc, burning speed supported and total capacity. If the disc has data inside, you also can check the size of data.



- Drive Info.: The version, model No. and brand name can be checked here.



- System Info.: The model No. and firmware version can be checked here.

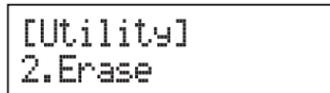
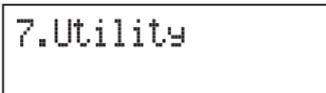


### 7-2. Erase Disc

This function will erase the rewritable discs in WRITER tray, there are two erase modes available:

- Quick Erase: It will erase the INDEX of the rewritable disc.
- Full Erase: It will erase ALL DATA in the rewritable disc, which takes longer time than Quick Erase.

1. Place discs into writers.
2. Using ▲ / ▼ to select 7.Utility and press **OK** to enter the sub menu. Then, select 2.Erase and press **OK**.

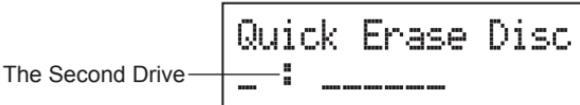


## II. Function (Disc Duplicator)

3. Using ▲ / ▼ to select 1.Quick Erase. or 2.Full Erase.



4. Pressing ○ (OK) to execute the erasing task. When the system is detecting the discs, you will see the colon flashing.



5. When the erase job is in process, you should see the O and o are blinking by turns.



6. Once the erase task has finished, the O stop blinking, the disc will be ejected automatically.



**\*\*Note:**

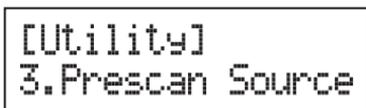
- 1** If you place a whole new DVD+RW to do whatever quick erase or full erase, the system will execute format automatically and you will see F and f blinking by turns on LCD.
- 2** Erase function only support rewritable discs.

### 7-3. PreScan Source

This function will scan and detect any bad sectors existing in the source disc, which helps you to ensure the readability of source disc.

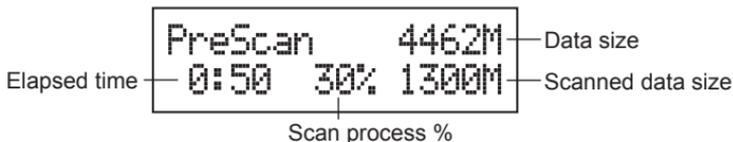
## II. Function (Disc Duplicator)

1. Place a source disc into reader.
2. Using ▲ / ▼ to select 7.Utility and press Ⓞ to enter the sub menu. Then, select 3.Prescan Source and press Ⓞ to start scan task.



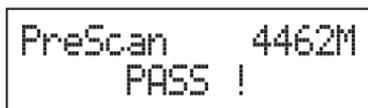
[Utility]  
3.Prescan Source

3. When prescan task is in process, you can see the process on the display:



PreScan 4462M — Data size  
Elapsed time 0:50 30% 1300M — Scanned data size  
Scan process %

4. When the prescan task has finished, the result of prescan will be shown on the LCD.



PreScan 4462M  
PASS !

### 7-4. Track Edit

This function enables you to combine audio tracks from various CDs into a single customize audio CD.

- Copy Track: You can select and combine audio tracks from different CDs in this section.
- Close Disc: You have to perform this function after copy track to make the CD playable on CD player.
- Disc Info.: You can check the audio CD's status of usage.

### 7-5. Eject All Disc

You can eject all discs including source and target discs at the same time by this function.

## II. Function (Disc Duplicator)

### 7-6. Copy Counter

This function will record the result of duplication.

- Show Count: You can check how many discs copy successful and failed.
  - Enable Counter: You can set the counter enable or disable to record the copy result.
  - Clear Counter: You can delete the record by this function.
1. Using ▲ / ▼ to select 7.Utility and press Ⓞ to enter the sub menu. Then, select 6.Copy Counter and press Ⓞ.

```
[Utility]
6.Copy counter
```

2. Using ▲ / ▼ to select 1.Show Count.

```
[Copy count]
1.Show Count
```

3. Pressing Ⓞ to check the calculation of successful and failed duplication for CD and DVD.

Q'ty of passed CD			
CD	P6	F0	Q'ty of failed CD
DVD	P12	P0	

### 7-7. Update BIOS

You can update the system's firmware by this function.

1. Place manufacturer certified update file CD into any drive
2. Pressing ▲ / ▼ to select 7.Utility and sub menu 7.Update BIOS and then press Ⓞ to start the process.

```
[Utility]
7.Update BIOS
```

## II. Function (Disc Duplicator)

3. The system will detect the update file and execute update task automatically.

```
Update Firmware
                20%
```

4. Once the update job has done, the system will require you to reboot the system.

```
TURN OFF, WAIT 5
Second, TURN ON
```



**\*\*Note:**

DO NOT save the firmware in a folder. The system can not detect the firmware if you save it in a folder.

### 7-8. PRINT LS Label

This function will let you using the Lightscribe technology to print your own image on discs.

The operation process please refer to Appendix Lightscribe Operation.

## 8. Setup

### 8-1. Auto Start Time

This setting will allow the system to do the Copy, Test, Compare and Copy + Compare functions automatically in a few seconds once the source and blank discs are placed in the trays and detected by the system. The default setting is 5 seconds. You can set a longer/shorter time from 1 to 99 seconds or set OFF to disable this function and execute copy task by manual.

1. Pressing ▲ / ▼ to select 8.Setup and sub menu 1.Auto Start Time.

```
[Setup]
1.Auto StartTime
```

## II. Function (Disc Duplicator)

2. Pressing ▲ / ▼ to set the time.

```
[Auto StartTime]
  5 seconds
```

### 8-2. Display Mode

You can select the preferred display mode in Copy, Test, Compare, Copy+Compare.

- Basic: It will only show the copy process (%) on LCD.

Q'ty of target

```
1.Copy X5 900M
77% 693M
```

Copy process % —————

Data size

Copied size

- Show Timer: It will show the time for copy.

```
1.Copy X5 900M
0:41 77% 693M
```

Elapsed time —————

- Show Speed: It will show the speed of burning during copy process.

```
1.Copy X5 900M
16x 77% 693M
```

Speed of burning —————

### 8-3. Button Beep

This setting will allow you to set up to hear a beep when a button is pressed or not.

### 8-4. Eject On Start

You can set the trays or discs eject once the system is booted up.

- Eject All Discs: To eject all trays with disc inside once the system is booted up.
- Do Not Eject: No eject any tray or disc once the system is booted up.

## II. Function (Disc Duplicator)

---

- Eject Target Only: Only eject target trays with disc inside once the system is booted up.
- Eject Source Only: Only eject source disc once the system is booted up.
- Eject All Trays: To eject all trays once the system is booted up.

### 8-5. Reader Speed

This setting allows you to adjust the reading speed of source drive. The default setting of reader speed of CD is 40X; DVD is 24X.

### 8-6. Compare Speed

The reading speed of drive and disc are the reasons can affect the quality of comparison. This setting allows you to adjust the reading speed of target drives to match up the reading speed of discs. The default setting of CD's compare speed is 40X, DVD is 8X.

### 8-7. Language

You can set a proper language for interface during operation.

### 8-8. Clear Setup

This setting will reset all the function back to manufacturer's default setting.

### 8-9. Advanced Setup

- Power On Time: You can set a warm-up time from 5 to 99 seconds for warming up the duplicator when it is turned on. The default setting is 10 seconds.
- Start-up Menu: You can select which function you would like to show up in the beginning.
- Skip Read Error: You can set this function enable to skip disc errors in order to avoid bad quality of copy. If you are confident of your source disc has only a small and insignificant error due to physical damages and can be overlooked, you can set NO to disable this function.

## II. Function (Disc Duplicator)



**\*\*Note:**

Skip Read Error can not fix the error in the source disc, all it does is skipping the errors and keeps copying the rest of readable data.

- **Change Bad Master:** This setting will make the system eject source disc and ask for another one while the source disc is unreadable by the system.
- **CD Overburn:** The majority of discs have a small margin of extra groove at the outer edge. This setting allows you to copy data over the normal size limit.
- **Show HDD Image Name:** You can select to show HDD image name or capacity on Copy, Test, Copy + Compare and Compare function

Show HDD Image Name:

```
1.Copy
Source:H(A001)
```

Show capacity:

```
1.Copy
Source:H(CD702)
```



**\*\*Note:**

When you change the source from drive to HDD, the LCD will show the HDD information. How to change your source reader please refer to [6.Select Source](#), page 28.

- **Keep Buffer:** You can set Yes to load source disc to buffer in first round of Copy, Test, Compare or Copy+Compare and do it again without the source disc. Or you can set No to keep buffer not be used.



**\*\*Note:**

The source will be only temporary saved in buffer, there will be nothing left when you exit the task (Copy, Test, Compare and Copy+Compare) or reboot the system.

- **Boot Password:** This setting allows you to enable or disable the user administrative password. Users have to login when the system is booted on.
- **Setup Password:** You can set up password by pressing / to select the number you like and press to set next number.

## II. Function (Disc Duplicator)

### 9. HDD Manager (For HDD-installed duplicator)

#### 9-1. Select Image

You can select image file from HDD as your source for copy. When this function is selected, the system will set the HDD to be the source reader automatically.

1. Pressing  /  to select 9.HDD Manager and sub menu 1.Select Image.

```
[HDD Manager]
1.Select Image
```

2. Pressing  /  to select the image you need and press  to confirm.

```
001[A001]
Audio CD    702M — Data size
```

#### 9-2. Disc to Image

This function will load your source disc to the built-in HDD and save the source as an image file.

1. Placing the source disc to any one of the drives
2. Pressing  /  to select 9.HDD Manager and sub menu 2.Disc to Image.

```
[HDD Manager]
1.CD => Image
```

3. Pressing  to start loading.

```
DVD==>[A001]
50%          456MB
```

## II. Function (Disc Duplicator)

- When loading has finished, the disc will be ejected automatically.

```
DVD==>[A001]
Finished !
```



**\*\*Note:**

The source disc can be placed in any drive, it will not affect the loading process.

### 9-3. Set Reader Speed

You can adjust the reading speed of the drive which you put the source disc. This function is **ONLY** available when you loading the source disc to HDD. The default setting of both CD and DVD speed are MAX.

### 9-4. Show Image Info.

You can check the disc format and data size of image file in this function.

- Pressing  /  to select 9.HDD Manager and sub menu 4.Show Image Info.

```
[HDD Manager]
4.ShowImageInfo.
```

- Press  check the disc format and data size of the image file. And you can press  /  to check other image file's information.

```
001 [A001]
AudioCD      702M
```

### 9-5. Rename Image

This function allows you to change the name of image file. You can set maximum up to 8 characters for a new name, and NO blank is allowed between the characters.

## II. Function (Disc Duplicator)

1. Pressing  /  to select 9.HDD Manager and sub menu 5.Rename Image.

```
[HDD Manager]
5.Rename Image
```

2. Pressing  and select which image file you would like to rename by pressing  / , and then press  to start edit a new name for the selected file.

```
Edit Image Name
[A002]
```

You can select characters or number by pressing  / , and press  to the next space to edit. The maximum is 8 characters without blank space. When it has done, press  to confirm the new name.

### 9-6. Delete Image

You can delete image file from the built-in HDD, but the source image file is unable to delete if the file is selected as source. Therefore, before you delete an image file, please check if it is selected as a source and change a new one source by 9-1.Select Image, page 37.



**\*\*Note:**

If there is an image file is deleted, the file name will be held for next new image file, the existing file will not to fill the vacancy. For example, there are 5 image files (A001~A005) in the HDD, when you delete A003, A004 will not change to be A003, once a new file has loaded, its default name will be A003.

### 9-7. Show HDD Info.

You can check the information of the built-in HDD includes how many discs with image file are stored and the free space is available in the HDD.

```
Used: 1CD 3DVD
Free:146CD 29DVD
```

## II. Function (Disc Duplicator)

---

### 9-8. Format HDD

This function allows you to format the built-in HDD while the HDD is NOT selected as reading source. You can change the source from HDD to other drive in 6. Select Source.

Due to the capacity for discs loading is hard to predict precisely and more and more different discs are coming out. The traditional method of format is not ideal for using on this duplicator. Our HDD management technology is able to detect disc capacity and assign a proper partition for the disc's data automatically. You do not have to predict and select CD or DVD partition in the beginning and you can check how many discs you can upload from 7. Show HDD Info. This intelligent HDD management technology is much easier for HDD management than the old way.

### 9-9. Load & Copy

This function is for the system to load the source to HDD and make copy synchronously. The system will load the source to HDD during the first round of duplication, and the HDD will replace the reader drive to be the source in second round of duplication. This special function is very convenient for a big copy task. You also can set:

- Synchronous: The system will load the source to HDD and make copy at the same time.
- Load First: The system will load source to HDD first and take HDD as source to copy.
- OFF: To turn off the Load & Copy function.



**\*\*Note:**

- 1** The image file will only be saved temporary if it is loaded to HDD by Load & Copy function.
- 2** If you would like to save the file permanently please load the file to HDD by manual (refer to [9-2.Disc to image](#), page 37)

## III. Specification

Model	MD801	MD803	MD807
Controller	BD2802	BD2804	BD2808
Operation	Standalone		
Target	1:1	1:3	1:7
Function	Flash to Disc Duplication		
	Disc to Disc Duplication		
Buffer (DDR2)	128MB		
CD Speed	52X		
DVD Speed	24X		
Blu-ray Speed	12X	12X	8X
Memory card or USB Backup to Disc technology	Multi-session		
	Disc Spanning		
	MultiDisc		
Memory Card Compatibility	CompactFlash™, MemoryStick/Pro/Duo, SD™ Card, miniSD, microSD		
USB Flash Drive Support	CF, SD/SDHC, Memory Stick/Pro/Duo, USB		
File Format Support	FAT12, FAT16, FAT32		
Disc Format Support	BD-ROM, BD-R, BD-RE DVD-ROM, DVD-Video, DVD-Audio, DVD+R, DVD+RW, DVD-R, DVD-RW, Dual Layer DVD±R, CD-ROM, CD-RW, CD-I, Audio CD, Video CD, CD+G, CD-TEXT, Bootable CD, Mixed-mode CD, Multi-session CD, CD-Extra, Business Card CD, 3" Mini CD-R		
Display	2X16 Backlight Monochrome LCD		
Control Button	4 buttons ( Forward, Backward, OK, Esc)		
LED	LED for each Memory card and USB device slots		
Temperature	Working	5°C ~ 45°C	
	Storage	-20°C ~ 85°C	
Humidity	Working	20% ~ 80%	
	Storage	5% ~ 95%	
Controller Power Consumption	Voltage	Max 5V	
	Current	Max 1 A	
Safety	FCC, CE, RoHS		
*The above information is for marketing reference only. The actual specification may subject to change without notice.			

## IV. FAQ

---

Q1: Will MD800 transform my memory card data to DVD video or MP3 CD?

A: MD800 will back up what ever you have in your original media devices; MD800 won't transform your data's format. You can trust their simple and straightforward copy capability.

Q2: Can MD800 play MP3 or JPEG photo?

A: No. MD800 is designed as a simple and easy to use backup machine.

Q3: Can MD800 link to PC?

A: Yes. MD800 has an optional USB module. Please ask your supplier for this option. When hook up with PC to MD800 will become an external CD/DVD burner.

Q4: How long does it take to do a Memory Card or USB to disc copy?

A: The speed of copy will depend on your Memory Card or USB's speed and the data size.

Q5: Can MD800 erase source disc?

A: MD800 only can erase the information of rewritable disc.

Q6: What file Format the MD800 can support?

A: MD800 support FAT format, such as FAT12, 16 and 32.

Q7: Why is the capacity of my flash memory card (as reported by many operating systems) different from the capacity that is listed on its label?

A: Some Disk Drive Companies define 1 MEGABYTE as 1,000,000 BYTES. But the Operating Systems define 1 MEGABYTE as 1,048,576 BYTES (1024K X 1024K or 2 to the 20th power). This is the reason why our systems calculate the capacity differently.

# LightScribe Operation

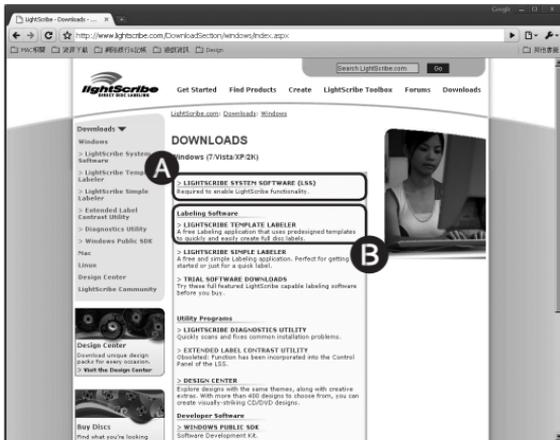
## Step 1

### Install LightScribe template software to PC

Download LightScribe software from [www.lightscribe.com](http://www.lightscribe.com) and install below software.

#### A. LIGHTSCRIBE SYSTEM SOFTWARE (LSS)

#### B. LIGHTSCRIBE TEMPLATE LABELER.

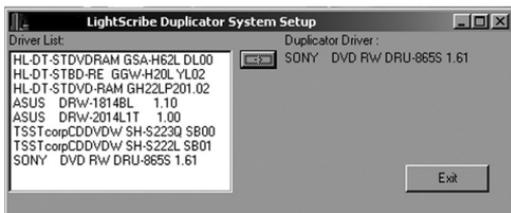


# Appendix

## Step 2

### Execute "LightScribe Drive select.exe".exe file to select LightScribe Drives

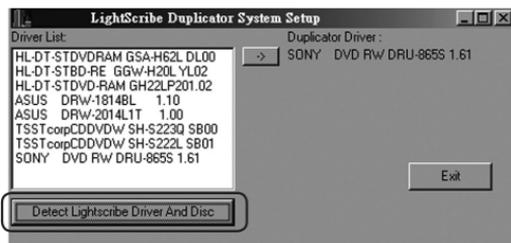
1. Receive a .exe file from your supplier.
2. Execute the .exe file on your PC.
3. And select the LightScribe Duplicator drive on the list.



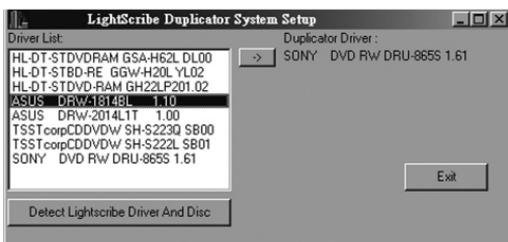
**\*\*Note:**

When everytime the Duplicator change LightScribe drive, must re-select drive before create LightScribe image for that Duplicator.

4. If the duplicator's Lightscribe drive is not on the list, please follow below steps to add new lightscribe drive to the support list.
  - 1 Plug the new lightscribe drive you will use for Duplicator to the PC.
  - 2 Click "Detect Lightscribe Drive And Disc " to search new available lightscribe drive.



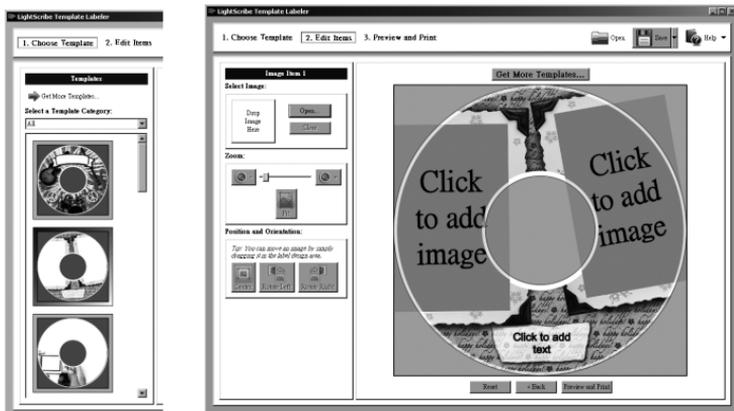
- 3 Select the new drive and press , the drive will be added to the list.



## Step 3

### Design Lightscribe Template and Lightscribe printing on PC.

1. Click to launch the LightScribe Template  on our PC.
2. Follow procedure to create your label image.
3. Make sure the lightscribe drive is selected.

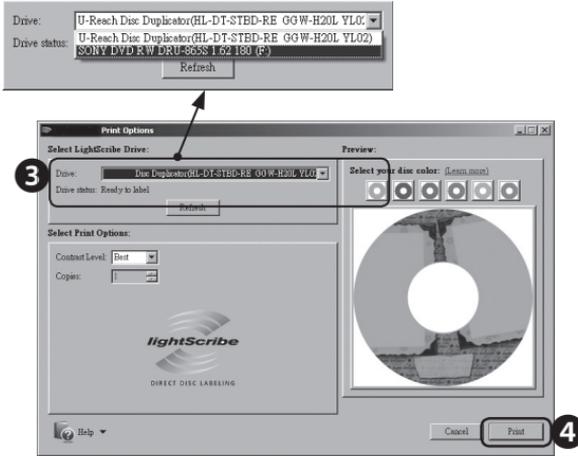


**\*\*Note:**

If Lightscribe template can not be executed normally under Window7, please try to click right button on the mouse on the Lightscribe icon and select " Run as administrator" to execute the function.

# Appendix

- Click the Print to save the lightscribe image .LSI file to a USB stick or a Disc.



- Plug the USB drive or Disc into Duplicator.
- Select the utility function 7-8.PRINT LS Label. The system will read the image into the duplicator and start printing the lightscribe label.



**\*\*Note:**

When doing the lightscribe printing, please turn over the disc. The print side is face down and data side is face up.





UR Reach

