

# CopyBox Pro

CD/DVD/Blu-Ray Duplicator



User Manual



# Content Index

## Function table

Function	Description		
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. To ensure data correctness.		
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 quick erase data from rewritable disc.
		2. Full Erase	To full 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.

# Function table

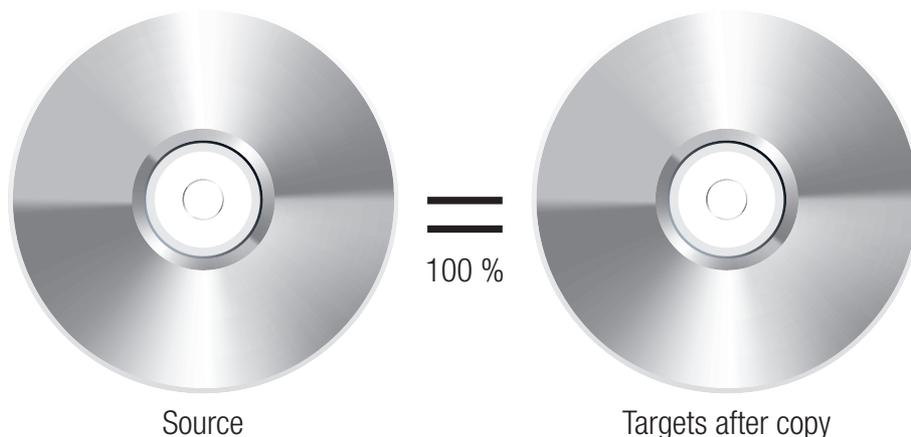
8. Setup	1. Auto Start Time		Allow the system to do the Copy, Test, Compare and Copy + Compare functions automatically.	
	2. Display Mode	1. Basic		
		2. Show Timer		
		3. Show Speed		
	3. Button Beep			
	4. Eject On Start	1. Eject All Discs	To eject all trays with disc inside once the system is booted up.	
		2. Do Not Eject	No eject any tray or disc once the system is booted up.	
		3. Eject Target Only	Only eject target trays with disc inside once the system is booted up.	
		4. Eject Source Only	Only eject source disc once the system is booted up.	
		5. Eject All Trays	To eject all trays once 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.		
10. Count Password		To set up counter login password.		

# Function table

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 image file 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 in 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 source to HDD first and copy from HDD to disc.
2. Load First		To load the source to HDD and make copy at the same time.	
3. OFF		To disable Load & Copy function.	
10. USB Copy Tool	1. Disc to USB		Copy Disc to USB
	2. USB to Disc		Copy USB to Disc
	3. USB to USB		Copy USB to USB

# Copy Disc to Disc

## How to execute disc to disc duplication?



- 1 Select function **"1.Copy"** and place source disc/target disc to the right drives. The system will detect source disc and display the disc info on LCD.

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

**Note** If you want to change source drive to other port, please go session "How to select source?"

- 2 Press **(OK)** button to start copying.

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

**Note** It's necessary to use the same types of disc during duplication. E.g., CD to CD; DVD to DVD.

# Copy Disc to Disc

- Once duplication task is completed, disc will be ejected automatically and LCD will show duplication result.



COPY 02:48  
PASS 3 FAIL 0

Elapsed time

**Note** Default setting of function "8.1 Auto Start Time". is 5 seconds, so the system automatically starts duplicating after the last drive rack is retracted for 5 seconds. User can customize the setting to longer waiting time or select "Off" to cancel this function.

## How to set copy speed?

User can change the copy speed of CD, Audio CD, DVD, DVD DL and Blu-ray. The default setting is CD=40x, Audio CD=24x, DVD=8x, DVD DL=2x, and Blu-ray=2x.

- Select function "5. Set Burn Speed" press  button to get into setting page.



5. Set Burn Speed

- Press   to adjust the copy speed of CD, press  after adjustment is set. After press , it switches to speed adjustment of the disc : Audio CD, DVD, DVD DL and Blu-ray.



[Burn Speed]  
CD = 40

# Copy Disc to Disc

## How to select source?

If the current source drive is broken, user can select any other drives to be source drive. In order to reduce damage on source disc, user can also select HDD as source.

- 1 Select function "6. Select Source".



```
6.Select Source
```

- 2 Press **OK** then press **▲** **▼** to adjust setting. After adjustment is set, press **OK** to get back to main menu.



```
Sourec: [D#01]  
==> [D#01]
```

### Note

- Default source drive is the first drive on the top.
- Please refer to "9. HDD Manage" for setting about HDD.

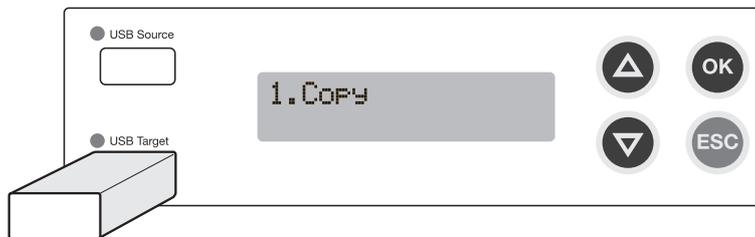
# Copy Disc to USB Drive

## Execute duplication from disc to USB drive.

It is able to copy data from disc to USB sticks by this function.



- 1 Place the source discs into drives and attached USB stick on the "Target port".



### Note

- If USB stick is connected on "source port", the system would show "ERROR".
- The system supports FAT16/32 format of USB stick. If the format is not FAT, system would show "target is not FAT system !"

- 2 Select function "10.1 Disc to USB" and press **OK** to start copying. During duplication, the system shows the quantity of duplication file, the size of duplication file, and working progress of duplication.

```
[Copy]
1.Disc to USB
```

# Copy Disc to USB Drive

**3** Copy accomplish.

Complete !

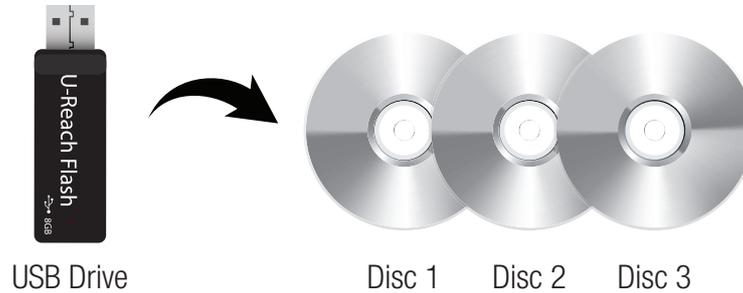
## Note

- If source disc is Audio CD, the soundtracks will be saved as .wav file and named as CD001, CD002, CD003, etc. Other format discs are saved and named as DISC001, DISC002, DISC003, etc.
- System is allowed to copy data from several discs to one USB drive by "Append Data".

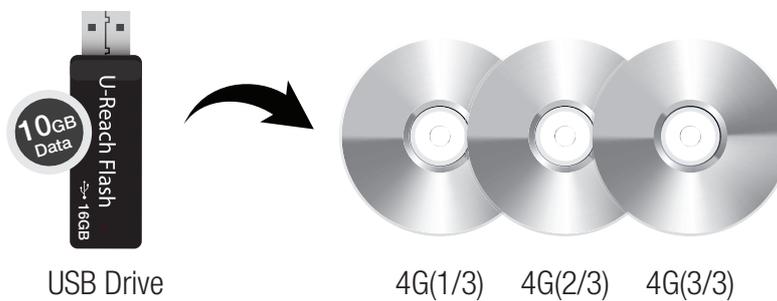
# Copy USB Drive to Disc

## Execute duplication from USB drive to disc.

If the file capacity < Disc capacity, you can copy to multidiscs



If the file capacity > Disc capacity



- 1 Connect USB drive on "USB source port" and place target discs in the drives.

- Note**
- If USB stick connects on "USB target port", the system would show "No USB Exist".
  - The system supports FAT16/32 format of USB stick. System shows "Can't copy NTFS!" if USB stick format is NTFS; it shows "Unknown Format!" if USB stick format is Ext2/3/4.

- 2 Select function "10.2 USB to Disc" then press **OK** to start copying.

```
[Copy]
2.USB to Disc
```

# Copy USB Drive to Disc

- 3** During duplication, the system shows data size, copied data size, and the completed percentage of duplication.

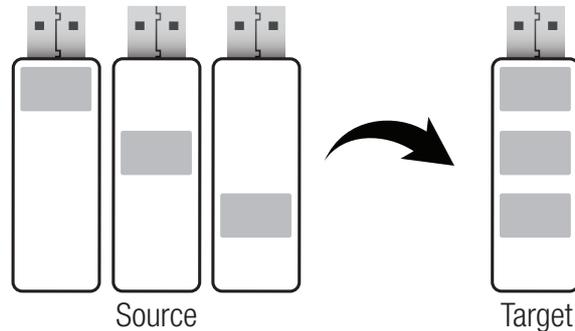
```
Write Disc  226M
           50%   113M
```

- 4** Discs are ejected automatically when copy is completed.

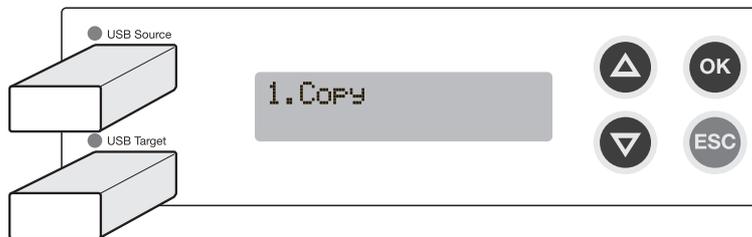
```
Write Disc  226M
           Complete !
```

# Copy USB Drive to USB Drive

Execute duplication from USB drive to USB drive.



- 1 To connect USB drive on both "Source USB port" and "Target USB port".



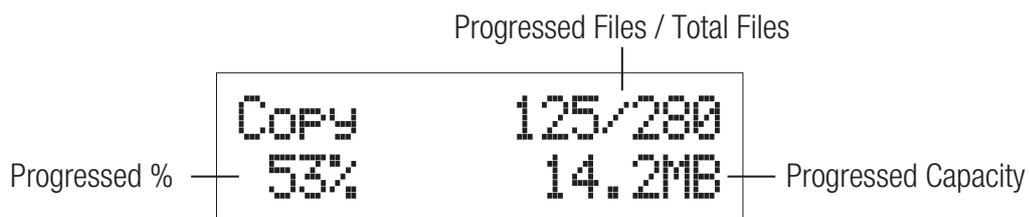
## Note

Source and target supports only FAT16/32 format. System would show "Source/target is not FAT system!" if it detects non-FAT format.

- 2 Select function "10.3 USB to USB" then press **OK** to start copying.

```
[Copy]
3.USB to USB
```

- 3 During copy, system shows quantity of data, quantity of completed copied data, quantity of data in copy, and the complete percentage of duplication.



# Copy USB Drive to USB Drive

4 Duplication completes.

Copy Files  
Complete !

**Note** System executes copying in the way of "Append Data".

## How to confirm accuracy of duplication result?

Because the quality of discs on the market is not always reliable, it's not guaranteed that duplication result is always successful. Thus, it's recommended to execute function "3. Compare" to make sure target is identical to source. "Compare" function verifies the data bit-for-bit. The compare function only can be apply on Disc to Disc copy.

- 1 Place source disc into source drive and duplicated target disc to target drives.

**Note**

- If USB stick connects on "USB target port", the system would show "No USB Exist".
- The system supports FAT16/32 format of USB stick. System shows "Can't copy NTFS !" if USB stick format is NTFS; it shows "Unknown Format !" if USB stick format is ext2/3/4.

- 2 Select function "3. Compare" then press  to start comparing.

```
3. COMPare x 3
Source: DVD4462M
```

- 3 System would automatically detect the quantity of source and target, then start comparing.

```
Write Disc  226M
50%         113M
```

- 4 System shows compare result after comparison is finished.

```
COMParex3 4462M
Finish !
```

```
COMPare Resu5:06
PASS 3  FAIL 0
```

**Note** It's recommended to select function "4. Copy+compare" to make sure the accuracy of duplication and reduce working process.

# Acquiring Information

## Get Disc Info

- 1 CD Info: Select function "7.1.1 Disc Info." to inquire the format of CD, maximum writing speed supported, and recordable length of time of sound track. It is able to inquire recorded time length of CD with data.

Disc Format — [1] 1 Track — Time for Burning Length  
Data CD 73:56 — Max Burn Speed

- 2 DVD info: Select function "7.1.1 Disc Info." to inquire format of DVD, maximum writing speed supported, and capacity of DVD. It is able to inquire data size of DVD with data.

Disc Format — [5] 4x — Burning Speed  
DVD-RW 4489M — Capacity / Data Size

## Get Drive Info

- 1 HDD: Select function "7.1.2 Drive Info." to inquire the brand name of model of HDD.

[HDD]P01.0  
ST3166813AS — HDD Brand & Model

- 2 Drive: Select function "7.1.2 Drive Info." to inquire the brand name, model, and firmware version of Optical Disc Drive.

[#01]P02.0 1.03 — Drive Version  
Pioneer DVD RW — Brand & Model

# Acquiring Information



## Get System Info

Select "7.1.3 System Info." to inquire model and firmware version of Controller.

Controller model	BD2208B	
Version	v2.29.9	128MB

# How to update firmware?

## By disc

- 1 Save the BIOS in disc and place it into drive.
- 2 Select function "7.7 Update BIOS" then press **OK** to update

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

- 3 System would detect firmware file and start updating.

```
[Update Process]
Writing >>>>
```

**Note** Please do not execute any function on duplicator or turn off the power during updating, otherwise it might happen un-repairable problem.

- 4 System would request for rebooting after update is completed.

```
[Update Process]
Complete !
```

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

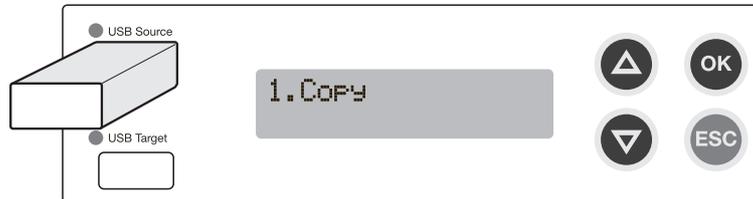
**Note**

- Make sure BIOS is unzipped.
- Make sure BIOS is saved at root directory, not under folder.

# How to update firmware?

## By USB port

- 1 Save BIOS in USB sticks and connect it to "USB source port", not "USB target port".



- 2 Select function "7.7 Update BIOS", then press **OK** to start update, and refer to the same update process as above.

### Note

- USB stick has to be FAT16/32 format, otherwise the systems would show "No Update File!" with non-FAT format.
- Make sure BIOS is unzipped.
- Make sure BIOS is saved at root directory, not under folder.
- It's possible that USB stick is incompatible, if system can't update even the three possible reasons above are all excluded. It's suggested to replace another USB stick or format USB stick again on PC before update again.

# HDD Application

## HDD Application

These functions are applicable only with HDD assembled.

### How to save image file to HDD

Select function "9.2 Disc => Image" to export data of source disc, then save it to built-in HDD.

- 1 Place source disc into any one of the drives.
- 2 Select function "9.2 Disc => Image".

```
[HDD Manager]
2.Disc => Image
```

- 3 Press  to start saving image file.

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

- 4 System ejects disc automatically after image file is saved.

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

**Note** Source disc can be placed into any one of the drives.

## How to review the info of image file

- 1 Select function "9.4 Show Image Info."

```
[HDD Manager]
4.Show Image Inf
```

- 2 Press **OK** to review the disc format and file size of image. Press **▲** **▼** to review other information.

```
001[A001      ]
Audio CD      702M
```

## How to inquire the quantity of saved image file and available space

Select function "9.7 Show HDD Info." to inquiry the info?

- 1 Select function "9.7 Show HDD Info."

```
[HDD Manager]
7.Show HDD Info.
```

- 2 Press **OK** to inquire the quantity of saved image file and available space for saving image in HDD. Press **OK** again to inquire the image storage status of DVD, DVD DL, and Blu-ray.

```
Used:    0 CD
Free:   296 CD
```

# HDD Application

## How to duplicate and save image file at the same time?

- 1 Select function "9.9 Load & Copy" to duplicate and save image file of source at the same time. System saves image file into built-in HDD at first round of duplication. Image file from HDD replaces source disc since second round of duplication, which reduces damage on source disc and has better duplication stability.

```
[HDD Manager]
9.Load & Copy
```

- 2 Press ▲ ▼ to alter setting, then press OK to apply.
  - ① **Load First** : System firstly saves image file of source disc, then duplicate with image file in HDD as source.
  - ② **Synchronism** : System saves image file and duplicate synchronously.
  - ③ **OFF** : Turn off "Load & Copy" function.

```
[Load & Copy]
Synchronism
```

### Note

- This function only save image file in HDD temporarily.
- In order to save image file permanently in HDD, please refer to function "9.2 Disc => Image".

# Erase re-writable disc

## How to erase disc:

This function can erase rewritable disc by two different modes.

- ① **Quick Erase** : to erase the index of rewritable disc
- ② **Full Erase** : to erase all the data of rewritable disc and take longer time than Quick Erase.

1 Place disc into the drives.

2 Execute function "7.2 Erase Disc" and press **OK**.

```
[Utility]
2.Erase Disc
```

3 Use **▲** **▼** to select between "7.2.1 Quick Erase" and "7.2.2 Full Erase".

```
[Erase Disc]
1.Quick Erase
```

```
[Erase Disc]
2.Full Erase
```

4 Press **OK** to execute erasing. LCD flashes when system detects disc in the drives.

The second drive

```
Quick Erase Disc
_!_____
```

5 "0" and "o" flash alternatively while duplicator executes erasing.

```
Quick Erase Disc
_0_____
```

# Erase re-writable disc

- 6 "0" and "o" stop flashing and discs are ejected once erase is completed.

```
Quick Erase Disc
```

```
-----
```

## Note

- If F and f flash alternatively, it means the rewritable disc was never used before and. System is formatting the disc.
- Erase function only supports rewritable disc



## How to set the time of auto start duplicating

The setting allows system auto start Copy, Test, Compare, and Copy+Compare in a few seconds after it's detected source and target disc. Default setting is 5 seconds, user can adjust from 1~99 seconds or turn off this function to execute duplication manually.

- 1 Select function "8.1 Auto Start Time".

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

- 2 Press  $\blacktriangle$   $\blacktriangledown$  to adjust starting time, then press  $\text{OK}$  to apply.

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

## How to adjust compare speed?

This setting allows user to adjust compare speed, default setting: CD=40x, DVD=8x, BD=4x.

- 1 Select function "8.6 Compare Speed", then press  $\text{OK}$  .

```
[Setup]
6.Compare Speed
```

- 2 Press  $\text{OK}$  to switch between CD, DVD, and Blu-ray modes. Press  $\text{OK}$  to adjust speed, then press  $\text{OK}$  to apply setting.

```
[Compare Speed]
CD = 36
```

# General Setting

## How to adjust time of booting?

It's able adjust from 5 to 99 seconds. Default setting is 15 second.

- 1 Select function "8.9.1 Power On Time".

```
[Advanced Setup]
1.Power On Time
```

- 2 Press ▲ ▼ to adjust booting time, then press OK to apply setting.

**Note** It is suggested Power On Time setting is longer than 10 second, because the drives would have enough time to boot up.

## How to set start up menu after system boot up?

- 1 Select function "8.9.2 Start-up Menu".

```
[Advanced Setup]
2.Start-up Menu
```

- 2 Press ▲ ▼ to adjust booting time then press OK to apply setting.

```
[Start-up Menu]
1.Copy
```

**Note** Only main menu is available for selection, not including sub-menu.



## Specification

Model	P701	P707	P711
Target	1	7	11
Buffer (DDR2)	64MB	128MB	256MB
Interface	SATA		
CD Speed	52x		
DVD Speed	24x		
Blu-ray Speed	8x		
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 LCD		
Input	4 push buttons ( Forward, Backward, OK, Esc)		
Language Support	English, Japanese, Chinese, Portuguese, Spanish		
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 1A	
Safety	FCC, CE, RoHS		



**UReach**

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