

Blu-ray/DVD/CD Duplicator controller user manual

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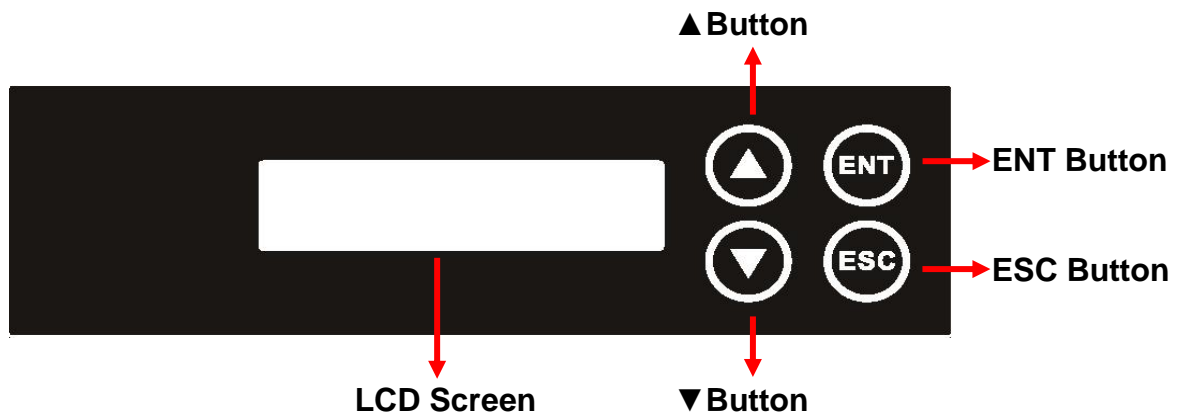
I. Introduction

Thank you for purchasing Blu-ray/DVD/CD Duplicator. This duplicator is specifically engineered to run stand-alone without additional computer. With a simple four-button interface, the Duplicator provides a fast and reliable solution for Blu-ray, DVD and CD duplication up to 11 targets from one single master disc.

1. Features

- Serial ATA (SATA) interface: Faster transfer rate, more reliable error check.
- 4-button control panel: Functional and user-friendly design
- Blu-ray/DVD/CD duplication: Proven performance & compatibility

2. LCD Front Panel Overview



▲ Button: Up, Backward: To navigate backward in the menu.

▼ Button: Down, Forward: To navigate forward in the menu.

ENT Button: Enter, OK: Execute the function.

ESC Button: Escape, Cancel: Go back to the previous level in the menu.

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3. Specifications

Model	Blu-ray/DVD/CD Duplicator	
Target	Depends on model - up to 11 targets	
Operation	Standalone (No PC or Software is required)	
Supported Format for Disc	DVD ROM, DVD-R, DVD-RW, DVD+R, DVD+RW, CD-DA, CD ROM, CD-R, CD-RW, Multi-session Photo CDT, CD-I, Video CD, CD ROM XA, & CD Extra (CD Plus)	
Control Button	4 button	
Writing Speed for Disc	DVD-R: 24X, DVD+R: 24X, DVD-RW: 6X, DVD+RW: 8X, DVD+R DL: 8X, DVD-R DL: 8X, CD-RW: 40X, CD-R: 52X;(Actual write speed depends upon media & drive specifications)	
Recording Discs	12cm 4.7GB DVD-R/RW, 12cm 4.7GB DVD+R/RW, 12cm 8.5GB DVD+R DL, 12cm 8.5GB DVD-R DL, 12cm 80min / 700MB CD-R, 12cm 74min / 650MB CD-RW, 8cm 1.47GB mini DVD-R, 8cm 24min / 210MB mini CD-R, 8cm 50MB Business Card CD-R	
Power Supply	115V or 230V (Selector Switch)	
Humidity	Working	20% ~ 80%
	Storage	5% ~ 95%
Temperature	Working	32oF ~ 167oF
	Storage	-4oF ~ 185oF

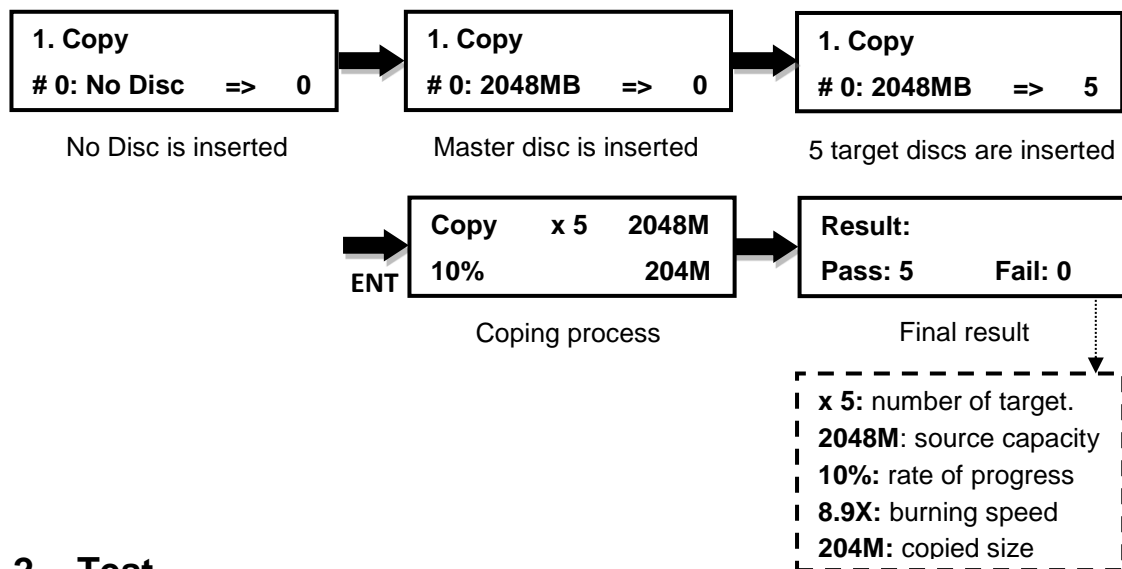
II. Warning

1. **DO NOT** turn off the machine when the task is under execution. It may damage the duplicator or drives.
2. **DO NOT** remove drives when the task is under execution. It may damage the duplicator or drives.
3. The master channel cannot be written (only can be read) to avoid damaging the data in the master drive.

III. Menu

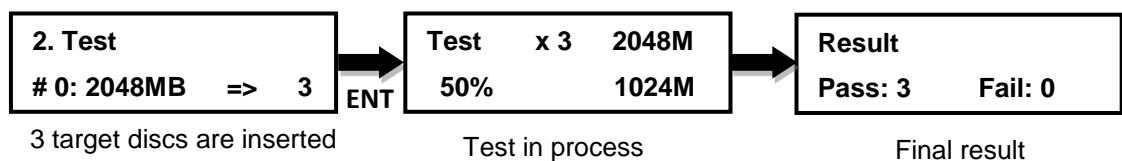
1. Copy

This command will copy the master disc placed in the designated Source Drive to all target discs in the Writer Drives. This process burns all data contained on the master disc to the target discs so the copies are exact duplicates of the master disc.



2. Test

This command will simulate the copy process and make sure all target discs are usable. The test process does NOT burn anything to the blank disc(s). A built-in diagnostic algorithm is used to verify the chance of successful copy for each target disc.

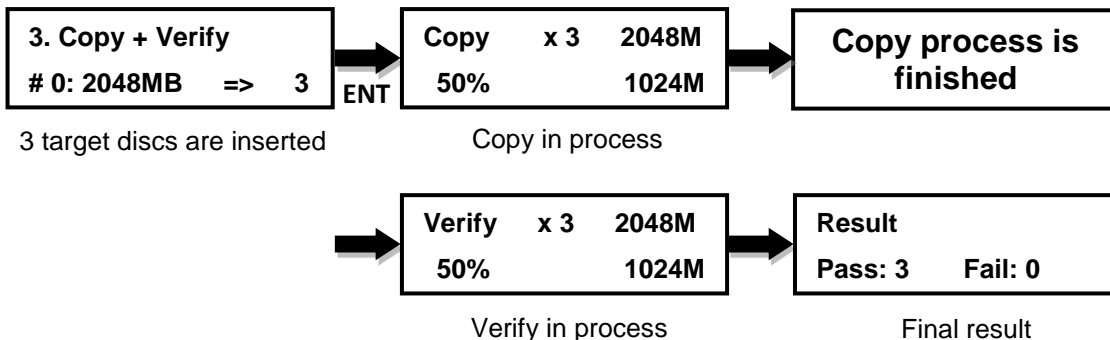


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Note: Test mode can only be done with BD-R, DVD-R and CD-R media.

3. Copy + Verify

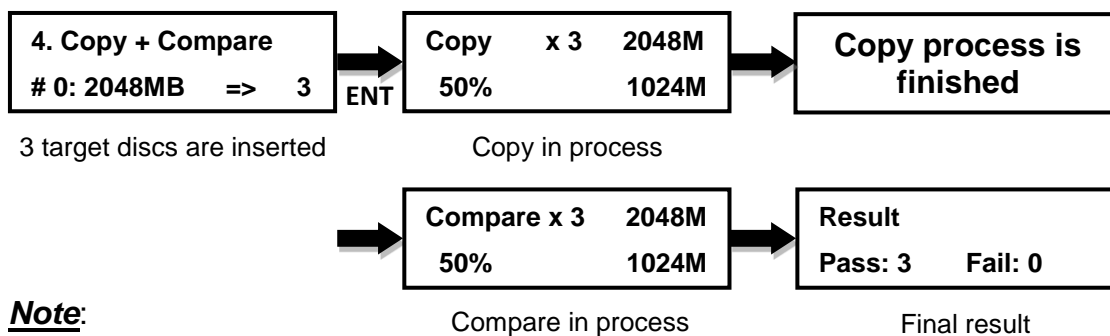
This command will perform the copy process, and immediately follow with a verification process on all target discs automatically. This command is useful especially for audio CD duplication.



Note: The verification process uses a **Disc Readability Check** to individually check the presence of data on each copy. This process does not compare the contents of duplicated discs against that of the master. It only verifies that the duplicated discs are readable.

4. Copy + Compare

This command will perform the copy process, and immediately follows with a comparison between the master disc and the copied disc(s) automatically to ensure the copies are exact duplicates of the master disc. This command is especially useful for BDs, DVDs, data CDs and video CDs.



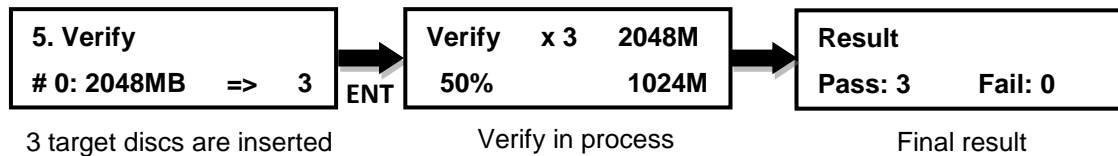
Note:

1. The Compare process is a bit-by-bit comparison between the master disc and the copied discs.
2. This operation ensures that all of the copies are completely identical to the Master disc.
3. This command is not applicable to audio CDs.

5. Verify

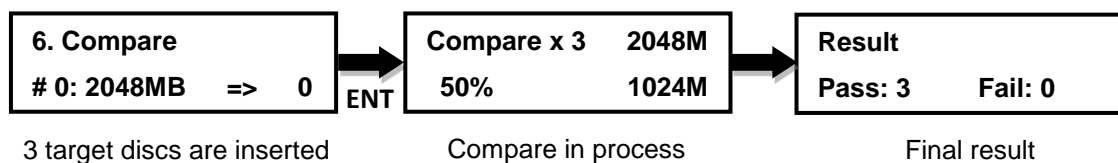
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This command verified readability on the all target discs. This command is especially useful for audio CD duplication.



6. Compare

This command compares copied disc(s) to the master disc and ensures that the copies are exact duplicates of the master disc. This command is especially useful for BDs, DVDs, data CDs and video CDs.



7. Set Burn Speed

This feature allows you to set the burn speed of various types of disc: CDs (data and VCDs), audio CDs, DVDs, dual-layer DVDs (DVD DL), and Blu-ray (BD-R SL, BD-R DL, BD-RE SL, and BD-RE DL).

Selectable burn speeds:

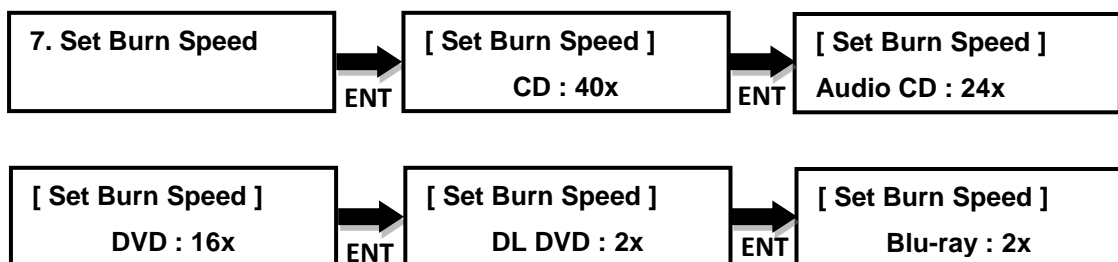
CD: 1, 2, 4, 8, 10, 12, 16, 20, 24, 32, 36, 40 (default), 44, 48, 50, 52, 56, MAX.

Audio CD: 1, 2, 4, 8, 10, 12, 16, 20, 24 (default), 32, 36, 40, 44, 48, 50, 52, 56, MAX.

DVD: 1, 2, 2.4, 4, 6, 8, 12, 16 (default), 18, 20, 24, MAX.

DVD DL: 1, 2 (default), 2.4, 4, 6, 8, 12, 16, 18, 20, 24, MAX.

Blu-ray: 1, 2 (default), 4, 6, 8, 10, 12, MAX.

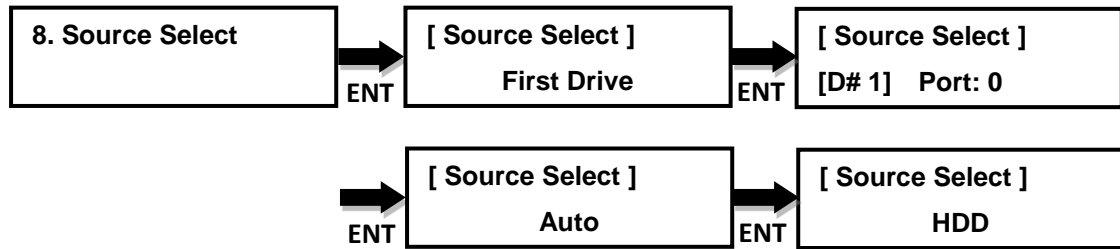


Press ▲ ▼ to select the desired burn speed

8. Source Select (Not available in Model DGC1 or DGBRC1)

This command will allow you to change the source drive to any one of the drive(s) inside the unit, including the HDD (if installed).

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Press ▲▼ to select the source

Selectable source:

First Drive (default): Choose the first port of plugged device as source.

HDD: Choose the Hard drive as source if installed.

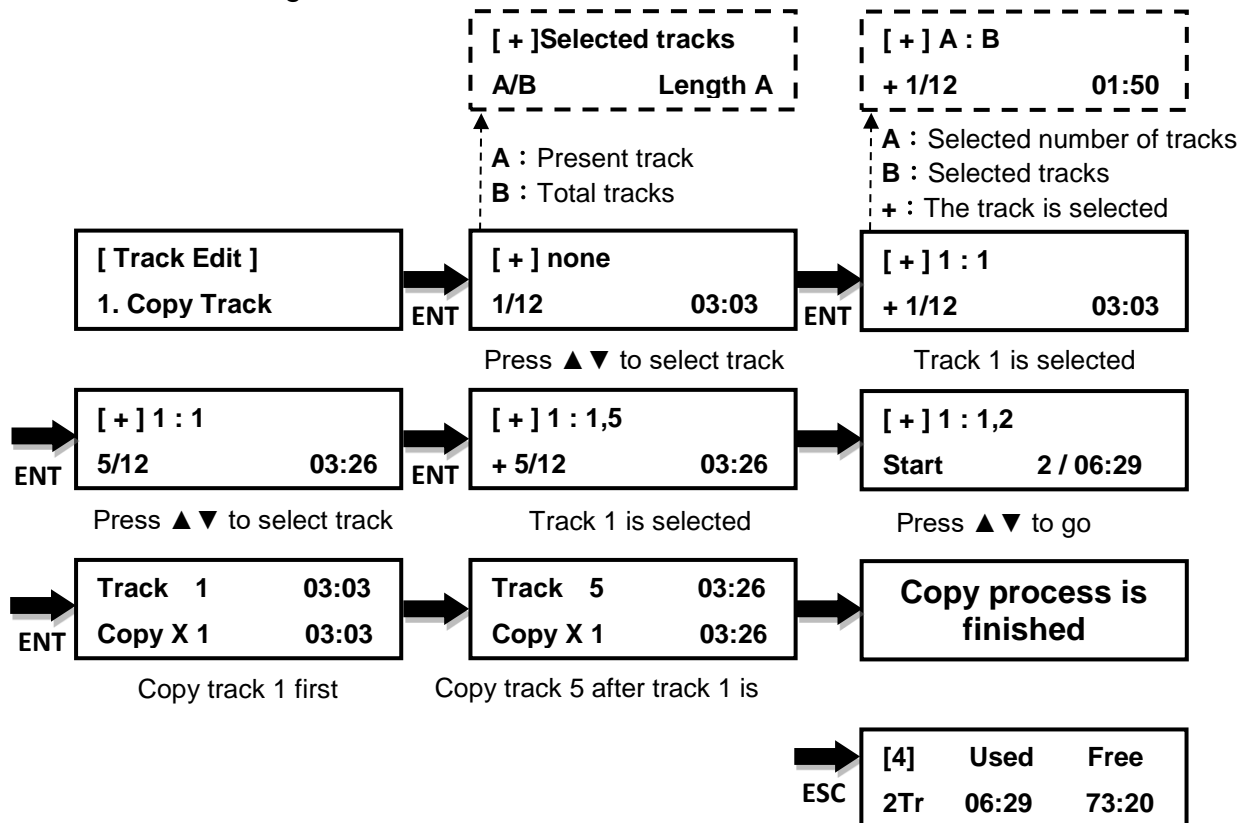
Port [#]: Choose the single port as source.

Auto: System will detect which port has source disc and set to source automatically.

9. Track edit

9.1 Copy track

This command allows user to select tracks from multiple audio CDs, combine and burn to target CDs.



Press ▲▼ to check the space information for each port

Note:

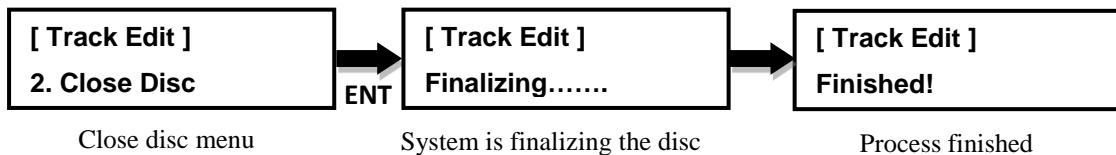
1. The function can be executed again if the Audio CD has free space.

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2. Please execute **Close Disc** when the space is full or the disc will not be added tracks on it.

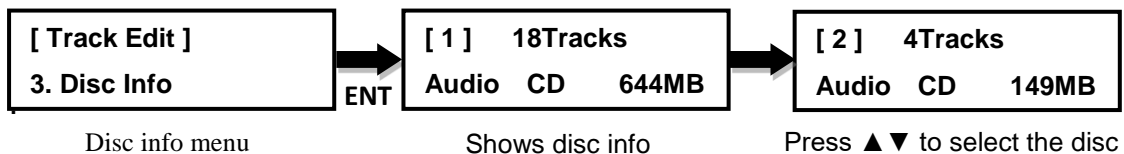
9.2 Close Disc

This command can closes edited audio CDs. After finishing track copied above, the **Close Disc** is needed to be executed to finalize disc. Without doing this process, the disc cannot be played on some DVD player.



9.3 Disc info

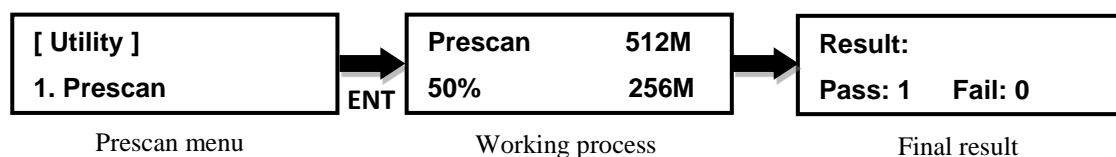
This command allows users to look up the information for each disc.



10. Utility

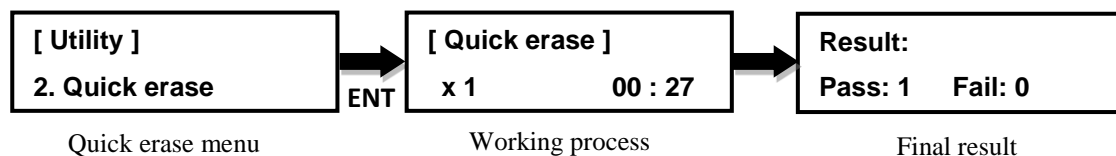
10.1 PreScan

Prescan the master disc and verifies the integrity and quality of the master disc. Execute the function before the copy process starts, it ensures the master disc can be copied in the duplicator if the result is passed.



10.2 Quick Erase

Performs a quick erase of rewritable (RW) media for next use.

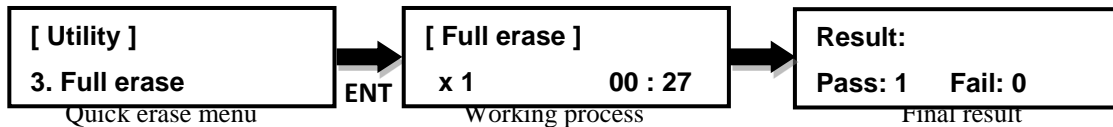


Note: Do NOT perform this function on recordable (R) media.

10.3 Full Erase

Perform a full erase of rewritable (RW) media for next use.

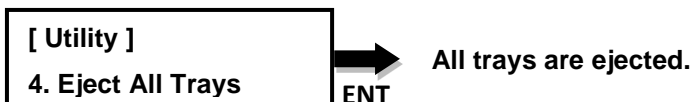
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Note: Do NOT perform this function with recordable (R) media

10.4 Eject All Trays

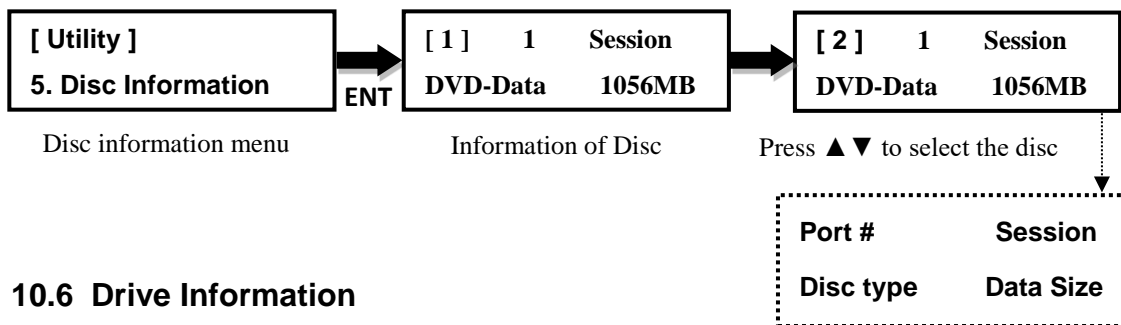
Perform a simultaneous ejection of all of the optical disk drive(s) on the duplicator.



Note: Double press **ESC** at the first layer of the menu can also eject all trays.

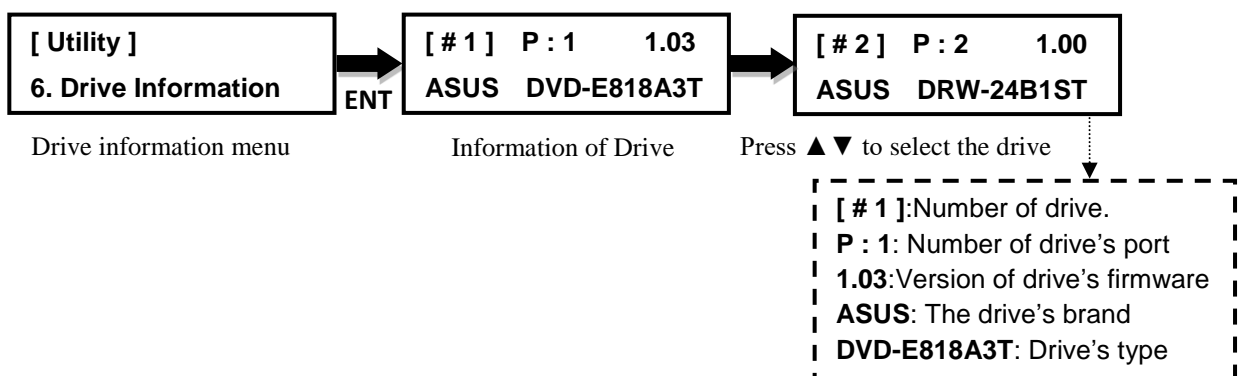
10.5 Disc Information

Check the disc information and space used inside of the drive(s) of the duplicator.



10.6 Drive Information

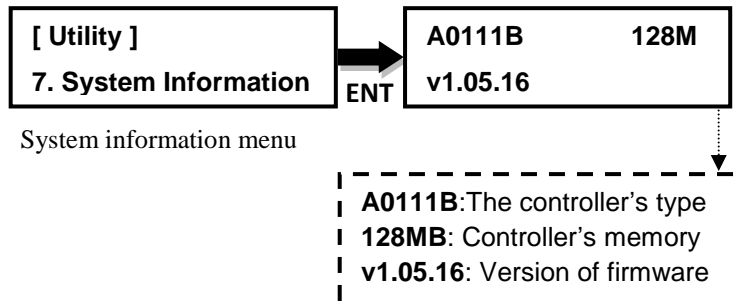
Check the make, model, firmware and the channel (port) of the drive(s) that are connected to the duplicator controller.



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10.7 System Information

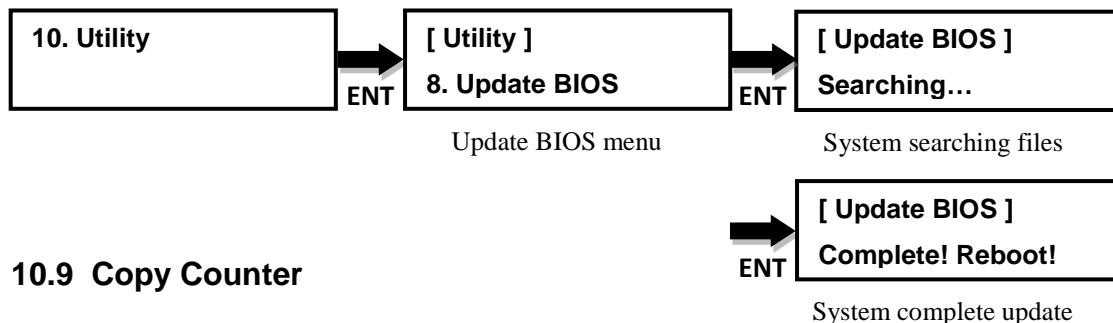
Check the model number, buffer memory and firmware version of the duplicator system.



10.8 Update BIOS

This command allows you to update the firmware of duplicator when necessary.

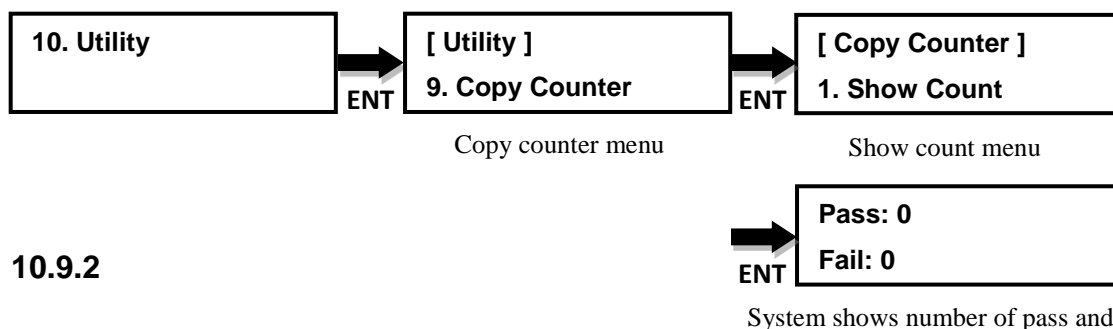
1. Obtain proper update firmware file from manufacturer
 2. Burn the un-zipped files to a CD or DVD supported by the duplicator
- Note:** Please plug the disc to source port and DO NOT put the files in a folder.
3. Select option **10.8 System Update**, and press ENT. The duplicator will automatically start updating the firmware. Once the update process is completed, the duplicator will reboot automatically to activate the new firmware.



10.9 Copy Counter

10.9.1 Show Count

This command can display the numbers of successful and failed copies made by the duplicator for CDs and DVDs.

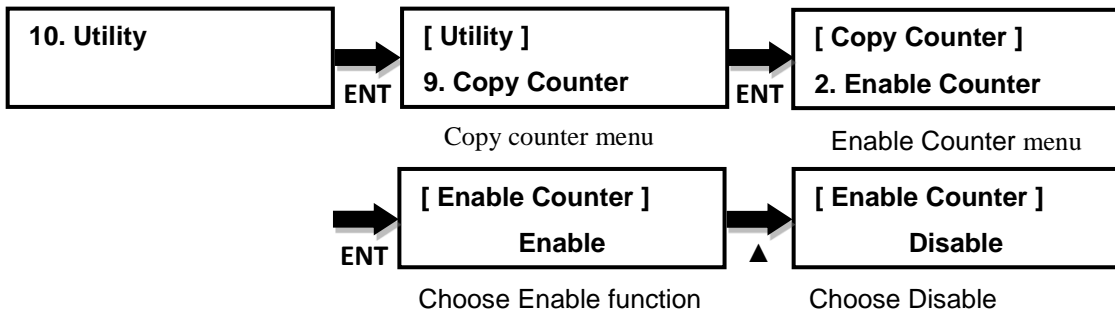


10.9.2

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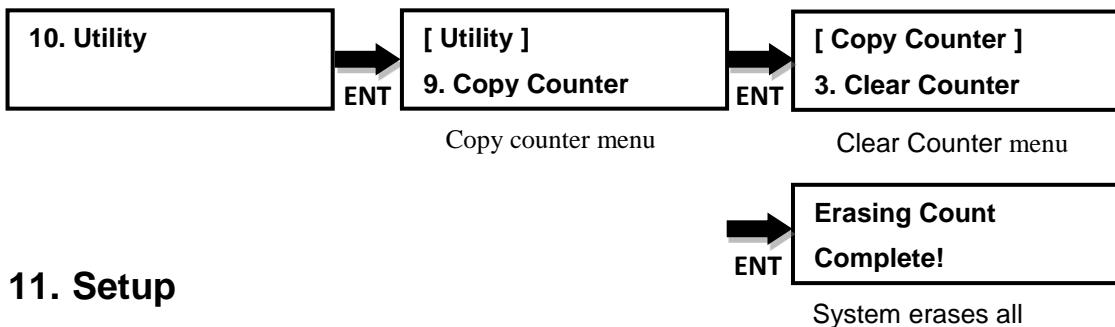
Enable Counter

This command can turn the counter function **enabled (default)** or disabled.



10.9.3 Clear Counter

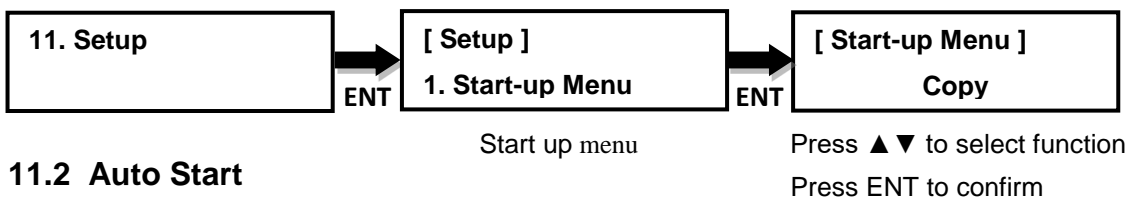
This command can clear all counted number to zero.



11. Setup

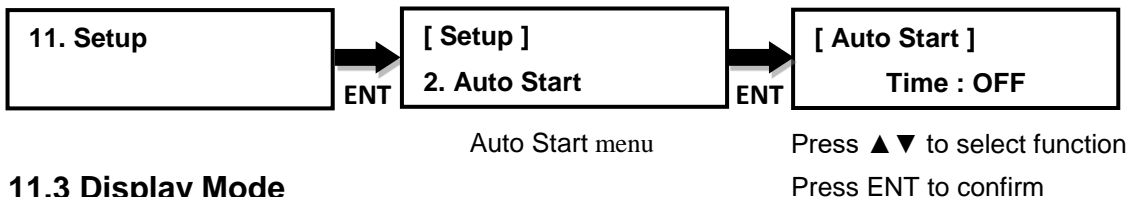
11.1 Start-up Menu

Set the command to be displayed first when the duplicator is powered up and initialized. All primary commands are available to be set for Start-up: **Copy (default)**, **Test**, **Copy + Verify**, **Copy + Compare**, **Verify**, **Compare**.



11.2 Auto Start

Set the amount of time before the duplicator will automatically start the selected command, ranging from **OFF (default)** (no auto start) to **120** seconds.



11.3 Display Mode

Change the display readout during the performance of various commands.

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“**Basic (default)**” mode displays a progress bar, along with the amount of total data in MB on the master DVD (or in time for the master CD).

“**Expert**” mode displayed the percentage of the process completed, the amount of data transferred and the total amount of data on the master disc.

“**Show Timer**” mode shows progress time bar in the process.

“**Show speed**” mode shows the transfer speed in the process.



Display Mode menu

Press ▲ ▼ to select function

Press ENT to confirm

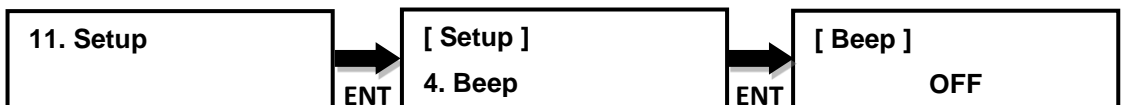
11.4 Beep

Turn the audio signal (a beeping sound) ON or OFF for pressing of the buttons.

Button & Warning (default): The device will produce audio signal when press button or error occurred.

Warning Only: The device will produce audio signal only when error occurred.

OFF: The device won't produce audio signal.



Beep menu

Press ▲ ▼ to select function

Press ENT to confirm

11.5 Power on Eject

Allows the drive(s) with disc(s) present inside to eject the disc trays when the duplicator is done initializing after power on.

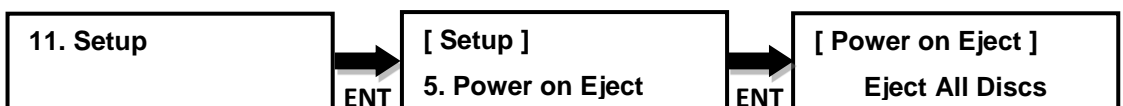
Eject All Discs (default): Device will ejects all trays with disc inside.

Eject All Trays: Device will ejects all trays no matter even if no disc inside.

Do Not Eject: Device won't ejects any trays.

Eject Targets Only: Device will only eject target's trays.

Eject Source Only: Device will only eject source's trays.



Power on Eject menu

Press ▲ ▼ to select function

Press ENT to confirm

11.6 Reader Speed

Set the reader speed for the duplicator to read the master disc(s).

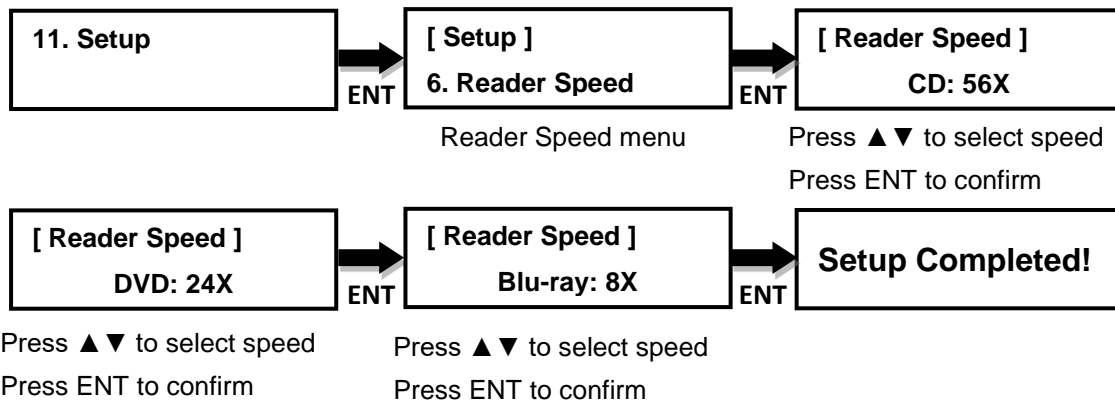
Selectable Reader speeds:

CD: 1, 2, 4, 8, 10, 12, 16, 20, 24, 32, 36, 40, 44, 48, 50, 52, **56 (default)**, MAX.

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DVD: 1, 2, 2.4, 4, 6, 8, 12, 16, 18, 20, 24(default), MAX.

Blu-ray: 1, 2, 4, 6, 8 (default), 10, 12, MAX.



11.7 Compare Speed

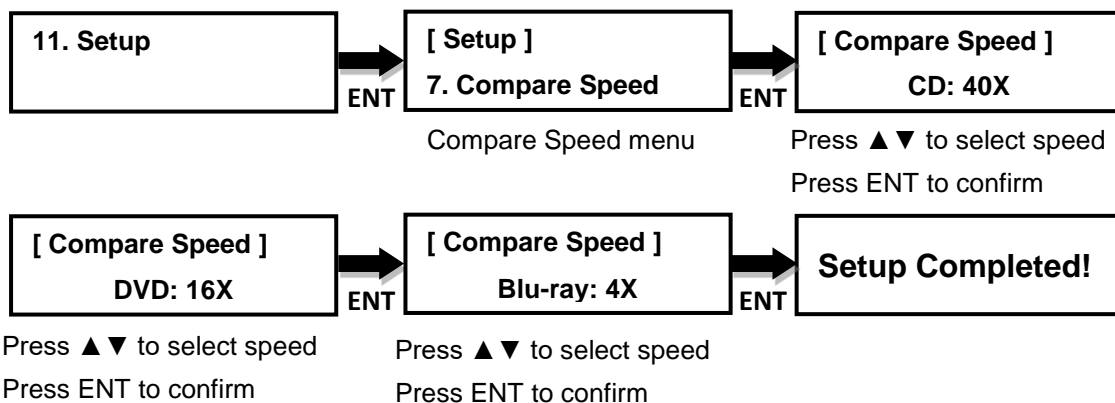
Sets the speed at which the master disc is compared with the copies disc(s).

Selectable Compare speeds:

CD: 1, 2, 4, 8, 10, 12, 16, 20, 24, 32, 36, 40 (default), 44, 48, 50, 52, 56, MAX.

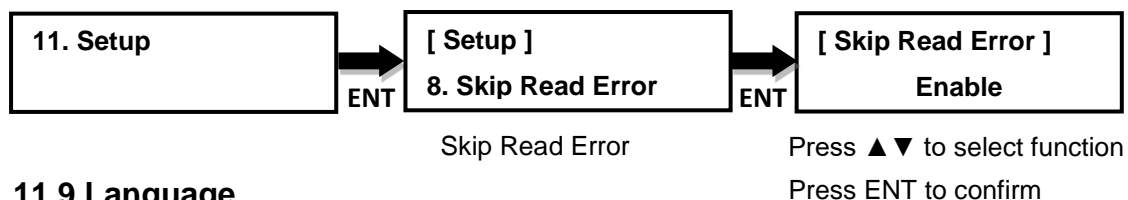
DVD: 1, 2, 2.4, 4, 6, 8, 12, 16 (default), 18, 20, 24, MAX.

Blu-ray: 1, 2, 4 (default), 6, 8, 10, 12, MAX.



11.8 Skip Read Error

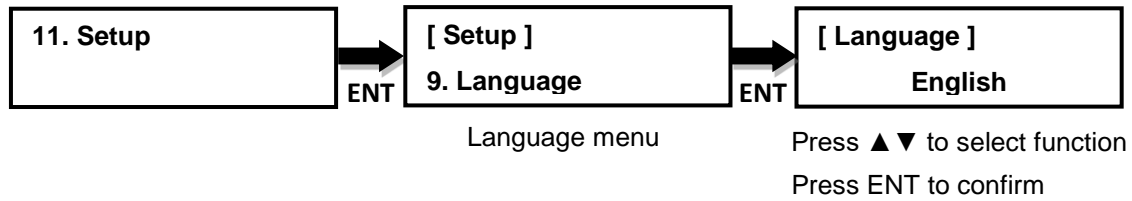
Allow the duplicator to skip uncorrectable read errors on the master BD, DVD or CD. This feature can be turned **Enable** or **Disable** (default).



11.9 Language

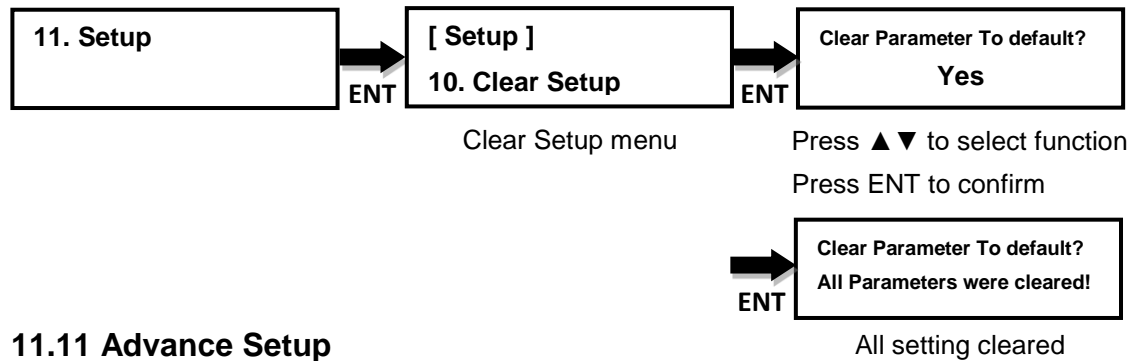
Set the language selection of the display. Available languages are: **English** (default), **Spanish**, **Portuguese**, and **Japanese**.

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11.10 Clear Setup

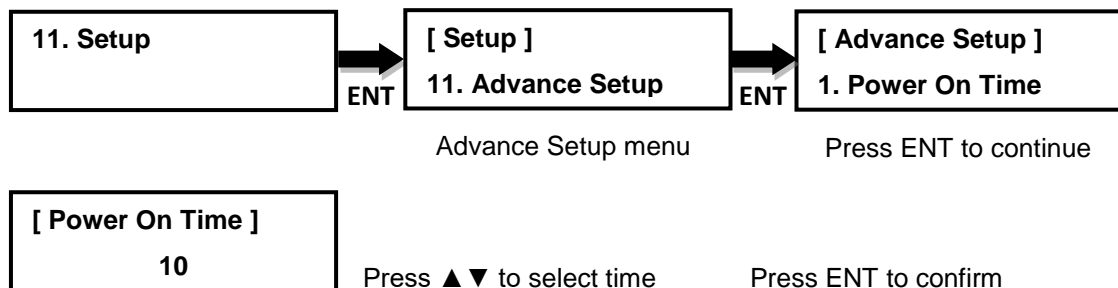
Reset the duplicator back to factory default settings.



11.11 Advance Setup

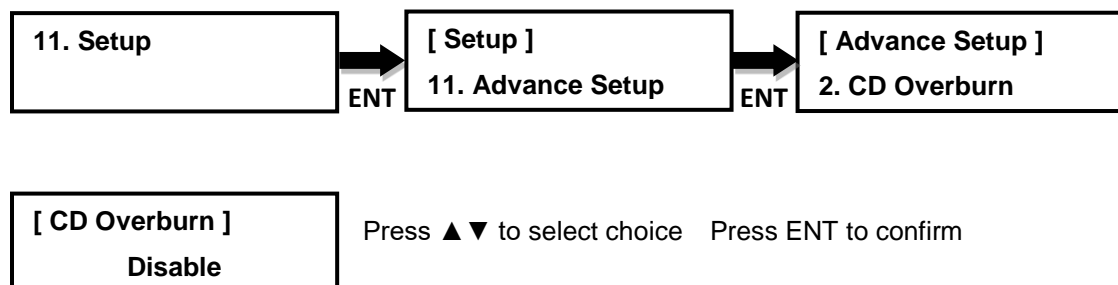
11.11.1 Power On Time

Set the amount of time the duplicator counts down before initializing the system. The default is **10** seconds. The time can be set from **3** to **120** seconds.



11.11.2 CD Overburn

Allow the copying of CDs that have been burned over their maximum capacity. The target disc(s) must be the same capacity as the master disc. The default is **Disable**.



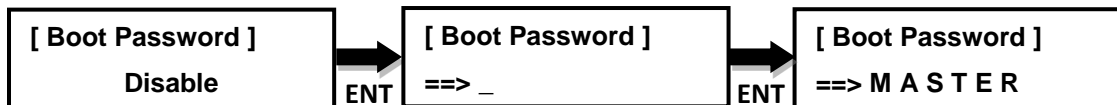
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11.11.3 Boot Password

Sets password protection for the duplicator before the boot-up process can be started. The boot password prevents anyone unauthorized from using the duplicator system. If Disable is selected, no password will be set and the display will direct back to the Setup sub-menu. The default is **Disable**.



Press ENT to continue



Press ▲ ▼ to select choice

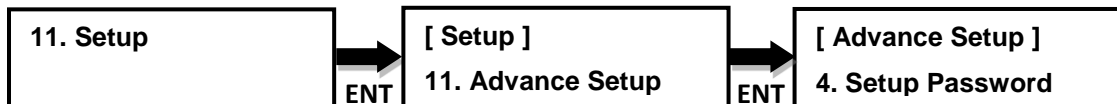
Press ▲ ▼ to select character

Press ENT to confirm

Press ENT to finish when all 6 character set

11.11.4 Setup Password

Sets password protection for the duplicator before the setup settings can be altered. The setup password prevents unauthorized changes to the system. If disable is selected, no password will be set and the display will direct back to the Setup sub-menu. The default is **Disable**.



Press ENT to continue



Press ▲ ▼ to select choice

Press ▲ ▼ to select character

Press ENT to confirm

Press ENT to finish when all 6 character set

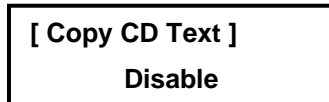
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11.11.5 Copy CD Text

Allow the copying of the CD-TEXT on the master disc(s) to the target disc(s).
The default is **Disable**.



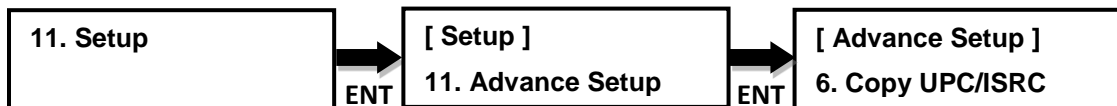
Press ENT to continue



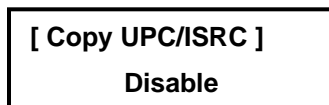
Press ▲ ▼ to select choice Press ENT to confirm

11.11.6 Copy UPC/ISRC

Allow the copying of the UPC/ISRC on the master disc(s) to the target disc(s).
The default is **Disable**.



Press ENT to continue



Press ▲ ▼ to select choice

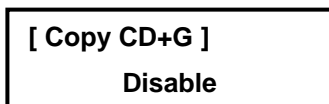
Press ENT to confirm

11.11.7 Copy CD+G

Allow the copying of CD+G files on the master disc(s) to the target disc(s).
The default is **Disable**.



Press ENT to continue



Press ▲ ▼ to select choice

Press ENT to confirm

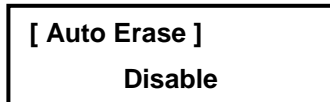
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11.11.8 Auto Erase

Allows the erasing of files on the rewriteable CD's or DVD's. The default is [Enable](#).



Press ENT to continue

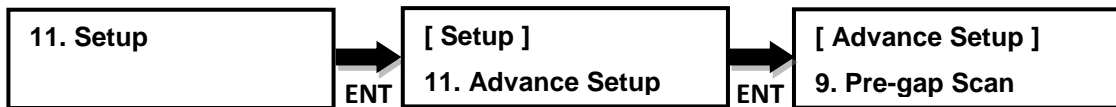


Press ▲▼ to select choice

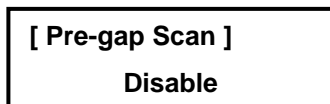
Press ENT to confirm

11.11.9 Pre-gap Scan

Pre-gap on audio CD is gap between tracks. If user enables this function, duplicator will scan all pre-gaps on source audio CD and make a copy by the result. If user disables this function, a fixed two seconds will be filled in gap between tracks. The default is [Disable](#).



Press ENT to continue



Press ▲▼ to select choice

Press ENT to confirm

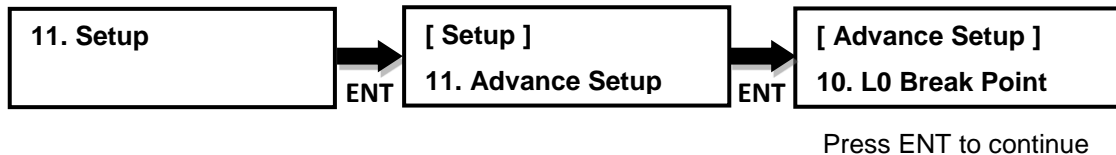
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11.11.10 L0 Break Point

The layer 0 break point is the place to switch from the first layer (L0) to second layer (L1). Duplicator allows user to set option for this breaking point.

By Source (default): Duplicator will burn the breaking point to target disc, following by break point place of source disc.

Optimization: Duplicator will automatically generate an optimized place and burn the breaking point.

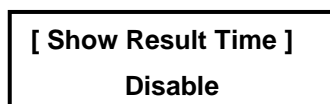
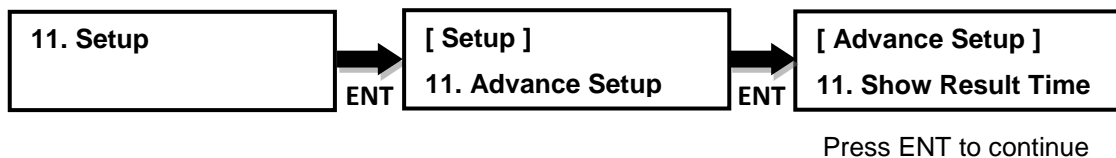


Press ▲ ▼ to select mode

Press ENT to confirm

11.11.11 Show Result Time

Allow the total result time to display on LCM. The default is **Disable**



Press ▲ ▼ to select choice

Press ENT to confirm

11.11.12 Performance

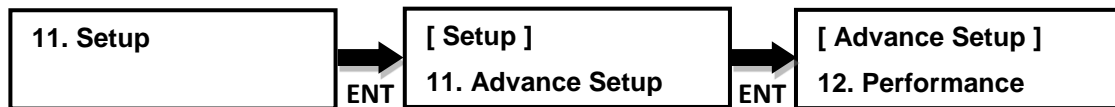
Allow user to set priority of burning for performance.

Speed (default): duplicator can provide maximum data transfer rate.

Compatibility: can provide maximum range to work but less transfer rate.

Balance: duplicator will maintain copy's Compatibility but keeps its speed as possible.

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Press ENT to continue

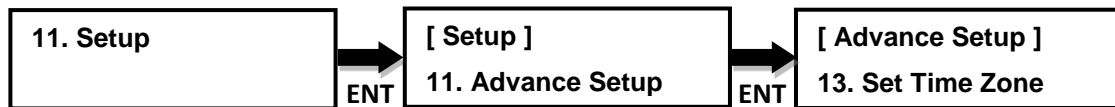


Press ▲ ▼ to select mode

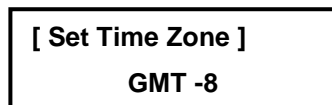
Press ENT to confirm

11.11.13 Set Time Zone

Allows you setup a time zone for your specific region based on GMT to time stamp your copies.



Press ENT to continue

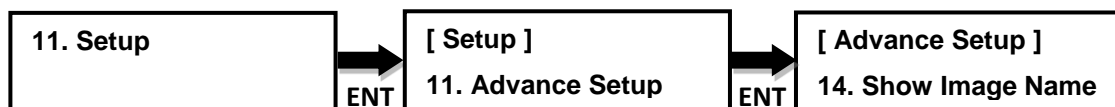


Press ▲ ▼ to select time zone(GMT +13~GMT -12)

Press ENT to confirm

11.11.14 Show Image Name

Allow to display image file name or not on LCM when setting source is HDD.
The default is [Disable](#)



Press ENT to continue



Press ▲ ▼ to select Choice

Press ENT to confirm

12. HDD Manager (Not available on model DGC1 or DGBRC1)

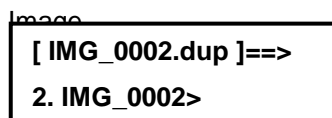
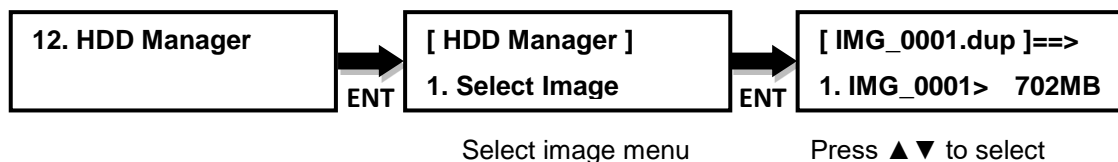
This command is for the management of the hard disk drive (HDD) installed in the duplicator.

Note: This feature is only available on duplicators with a HDD installed. If there is no HDD present in the duplicator, this feature will NOT show in the menu of commands.

12.1 Select Image

Allow the selection of the image(s) present on the HDD to be used as source. The Scroll buttons cycle through the image(s) on the HDD and the ENT button confirms the selection while the BACK button cancels the selection.

The image(s) are listed in order of which they were loaded.



Press ▲ ▼ to select Image

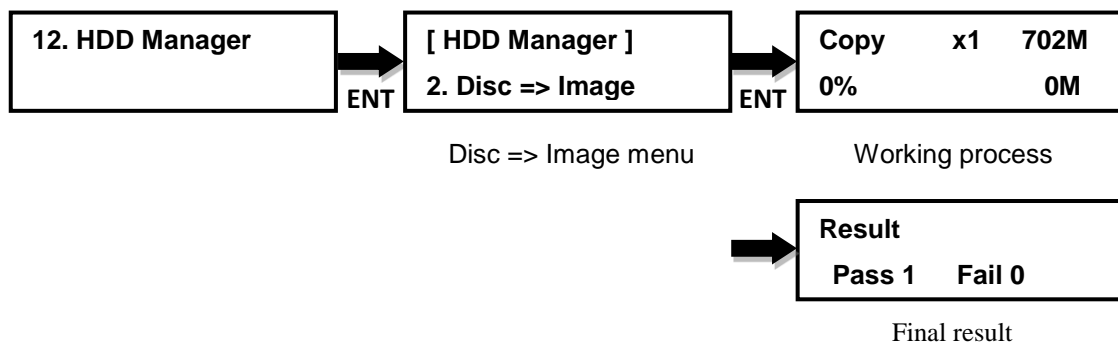
Press ENT to confirm choice

12.2 Disc => Image

Transfer the information from the master CD/DVD/BD to the HDD.

After the image(s) transfer is complete, the master disc is ejected and the source drive is changed to the HDD.

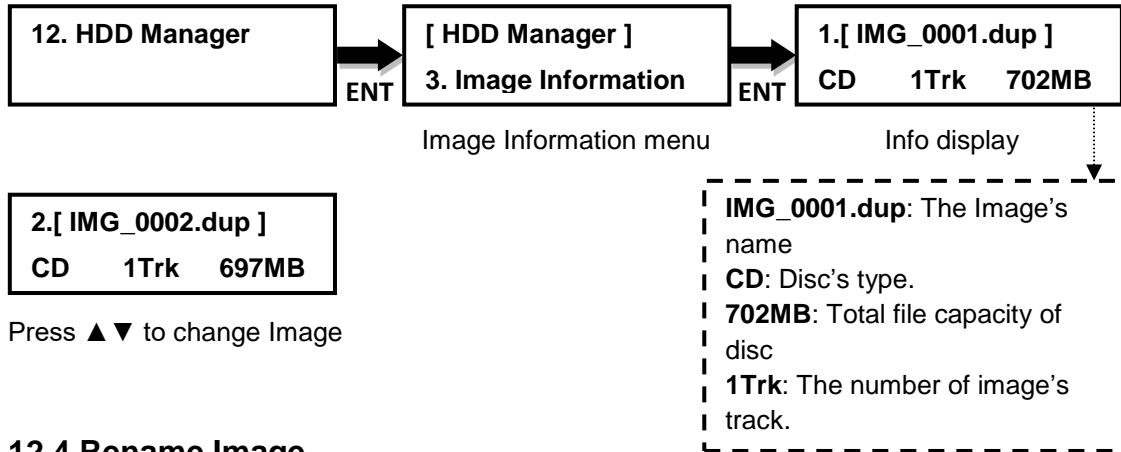
Note: The Source Disc may be placed in the Reader Drive or any of the Writer Drives.



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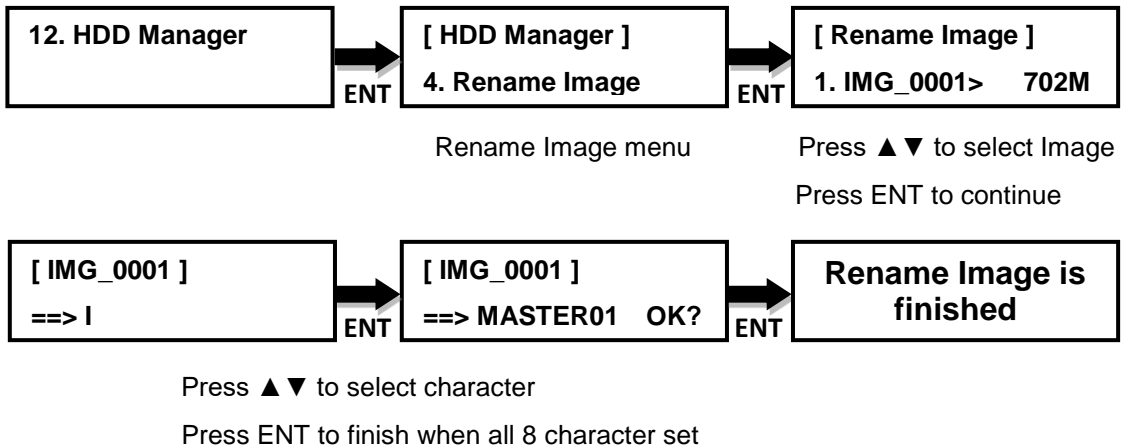
12.3 Image Information

Shows the image in sequential order, the file name of the image stored on the HDD, the type of image stored, and the amount of data the image contains.



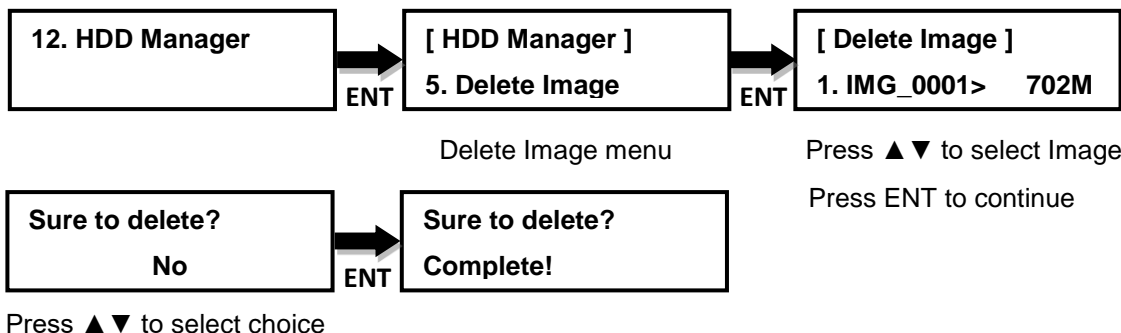
12.4 Rename Image

Rename the image instead of using default file names (IMG_0001, IMG_0002, etc.). Up to 8 characters.



12.5 Delete Image

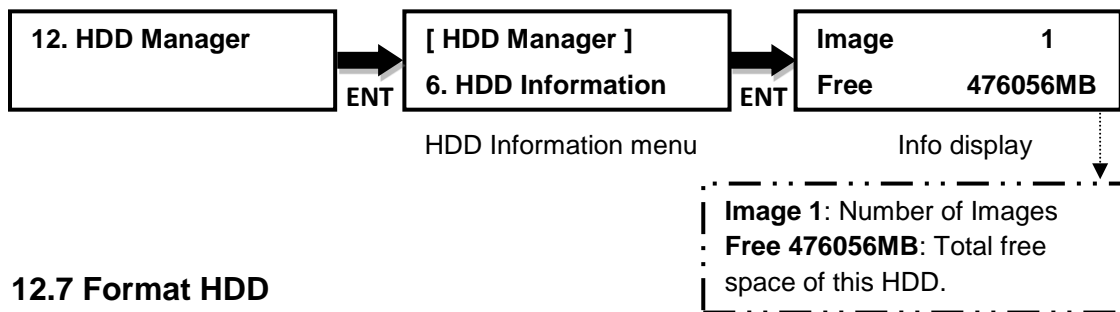
Deletes the image(s) from the HDD and reclaims the space occupied by the image on the HDD.



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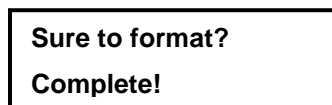
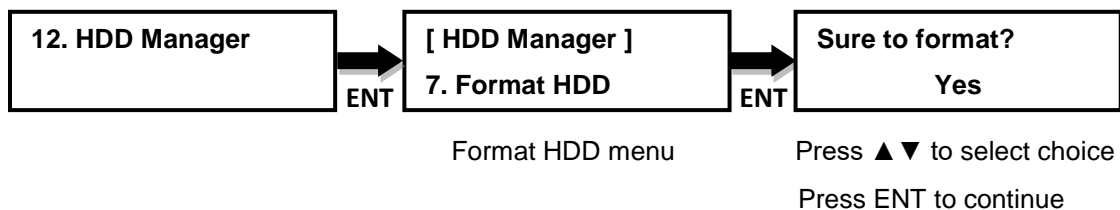
12.6 HDD Information

Show the number of images and amount of free space available.



12.7 Format HDD

Deletes and formats all image(s) on the HDD, restores the HDD to factory defaults and initializes the HDD for use with the duplicator.



12.8 HDD Setup

12.8.1 Load and Copy

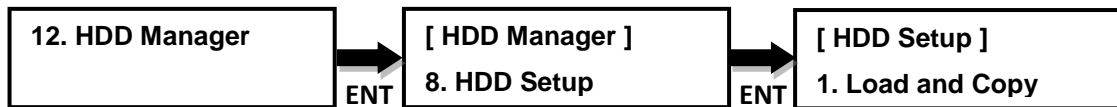
There are three (3) options in this function: OFF, Synchronous, and Load First.

OFF (default): Disables the load and copy function. No temporary image is loaded to the HDD during the copy process.

Load First: Complete loading of the image to the HDD before automatically begins the copy process from the image stored on the HDD to all target disc(s). Image is loaded one at a time and copied to the Writer Drives with blank disc(s) ready. The image is stored in a [TEMP] partition on the HDD.

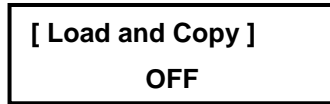
Synchronous: Loads the image at the same time while the duplicator is making copies from the master disc to the blank discs. As the copies being made, the image is also being created and stored on the HDD.

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HDD Setup menu

Press ENT to continue



Press ▲ ▼ to select mode

Press ENT to confirm choice

12.8.2 Failed Image

Set **delete** (default) or **reserve** the failed image.



HDD Setup menu

Press ENT to continue



Press ▲ ▼ to select mode

Press ENT to confirm choice

12.8.3 Default Image

Select the default image from the hard drive.

Available options: **Selected Image** (default) , **First Image** and **Latest Image**.



HDD Setup menu

Press ENT to continue



Press ▲ ▼ to select mode

Press ENT to confirm choice

IV. Basic Troubleshooting

Follow these simple steps for quick and proper troubleshooting.

Issue 1: Power does not turn on or unit receives no power.

- a. Check power cord and outlet to make sure power connections are secured.
- b. Check voltage switch on the back of the duplicator to make sure power supply is set for correct outlet rating.
- c. Test with another power cord (same as a PC power cord) to eliminate cable failure.

Issue 2: Master disc cannot be read

- a. Change the master disc. The master disc may be of poor quality or with error(s) that can make duplication difficult or impossible.
- b. Remake the master disc on another disc. Master disc may be of poor quality or with error(s) that make duplication difficult or impossible.
- c. Change the source drive to one of the other drives to test.
- d. Make sure the master disc is finalized in standard ISO format.

Issue 3: High failure rate

- a. Change the media type. Certain types of media may not be compatible with the drives. Poor-quality media can also cause high failure rate.
- b. Lower the burn speed and attempt another copy process. Lowering the speed increases the stability of the duplication process.
- c. Check for available firmware updates for the unit. A firmware update may resolve any unspecified issues.

Issue 4: Machine locks up during the copy process

- a. Hold down the ESC button to abort the copy process. The copy process will cancel and menu goes back to the last function executed.
- b. If the button cancel does not work, power cycle the unit (power the unit off, leave off for five seconds and power the unit back on).
- c. Change the master disc. A master disc with error(s) or a poor quality master disc can cause duplication to lock up at particular points during the copy process.

Issue 5: Button(s) do not function on the unit.

- a. The duplicator may be busy. Buttons pressed while the duplicator is processing will not perform functions unless otherwise specified.
- b. Possible faulty button. Contact your technical support department for further information.

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Issue 6: One of the drives does not open and/or LED does not light up

- a.** Check USB and/or Fire wire port switch and make sure the switch is in the OFF position before machine power is turned on.
- b.** If a disc is stuck inside a drive, insert a paper clip or safety pin in the pinhole underneath the drive door and push gently. Make sure the power is OFF during this step. Then press the EJECT button of the drive a few times to test the disc tray.

Issue 7: The blank CD/DVD/Blu-ray is not recognized in the writer drive(s)

- a.** Test the blank disc in another writer drive. A faulty writer drive will not recognize blank discs.
- b.** Change the blank disc to another disc. A defective blank disc will not be recognized by the writer drive.

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