SATA Blu-ray/DVD/CD Duplicator Controller

User's Manual

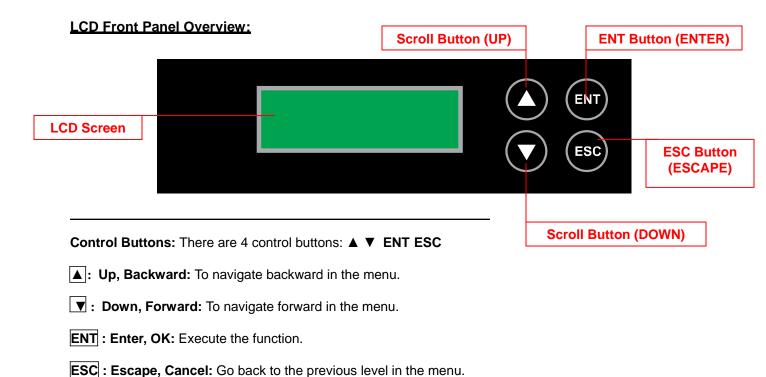
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Introduction:

Thank you for purchasing a SATA CD/DVD/Blu-ray Duplicator Controller. This controller is specifically engineered to run a stand-alone CD/DVD/Blu-ray duplicator without additional computer or processing unit. With a simple, four-button interface and a LCD screen to display menu commands and real-time status, the CD/DVD/Blu-ray Duplicator Controller provides a fast and reliable solution for CD, DVD and Blu-ray duplication up to 11 targets from one single master disc.

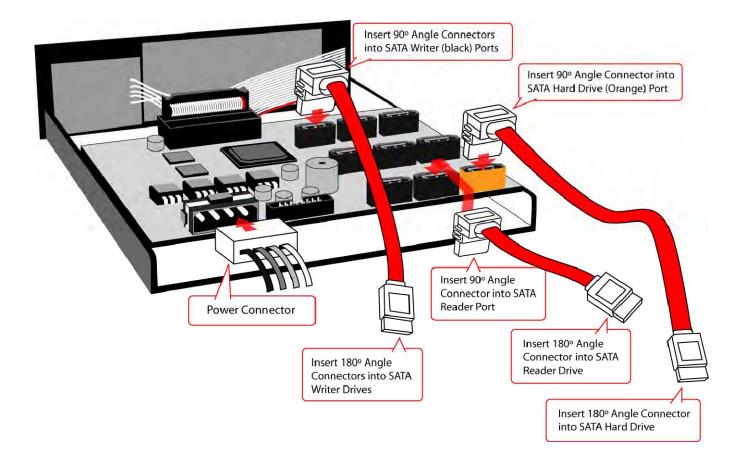
Operating Environment:

Temperature	Working Temperature	0°C ~ 75°C
	Storage Temperature	-20°C ~ 85°C
Humidity	Working Humidity	20%~80%
	Storage Humidity	5%~95%



Hardware Installation Guide:

Connect drives with cables provided to the appropriate slot on controller as indicated below.



Note: If there is no HDD installed, then the reader (ROM) will connect to port1, and writers will connect to the following available ports (port 2-16). If a HDD is installed, it will connect to port 1. The reader (ROM) will connect to port 2, and the writers will connect to the following available ports (port 3-16)

Configuration Guidelines:

Next are the basic operation guidelines on how to set SATA devices including optical reader, writers, and/or hard drive. The system will automatically detect the drives and assign drive numbers.

	READER	WRITER	Hard Disk Drive (HDD)	System Setting Information
1	Installed	Installed	No	When machine is turned on, the system will detect and assign the READER drive as the Source Drive, which will be automatically set as Drive #1. WRITERS will be set as Writer Drives and assigned in sequential order after the READER drive, starting from Drive#2, Drive#3, etc.
2	No	Installed	No	When machine is turned on, the system will assign the WRITER drive connected to Port#1 of the controller as the Source Drive and as Drive#1. The rest of the WRITERS will then be set as Writer Drives and numbered in sequential order beginning from Drive#2 and on.
3	No	Installed	Installed	When machine is turned on, the system will assign the Hard Disk Drive (HDD) as the Source Drive and as Drive#1. The WRITERS will then be set as Writer Drives, and numbered in sequential order beginning from Drive#2 and on.
4	Installed	Installed	Installed	When all drives are installed, Port #1 will be connected to Hard Disk Drive (HDD), Port #2 will be connected to the Source drive. WRITERS will be set as Writer Drives and numbered in sequential order from Drive#3 and on.

Menu Overview:

Below is a quick reference chart of the functions available on all CD/DVD/BD Duplicator Controllers. After the drives are successfully installed, user may access the menu functions by powering on the system.

1	COPY	Copies the master CD/DVD/BD. All contents of the master disc will be duplicated on to all target disc(s) simultaneously.	
2	TEST	Simulates the copy process, but no data is recorded onto the blank disc(s). Note: Test mode can only be done with BD-R, DVD-R and CD-R media only.	
3	COPY & VERIFY	Copies the master CD/DVD/BD, and then verifies the presence of data on the copied disc(s) to ensure readability of the copied disc(s).	
4	COPY & COMPARE	Copies the master CD/DVD/BD, and then immediately follows the copy process with a bit-for-bit comparison between the master disc and copied disc(s) to ensure exact duplication. Note: The "Compare" function cannot be used with audio CDs.	
5	VERIFY	Verifies the presence of data on the copied disc(s) to ensure that the copied disc(s) can be read back.	
6	COMPARE	Performs a bit-for-bit comparison between the master disc and copied disc(s).	
7	SET BURN SPEED	Allows the speed settings to be changed for various formats.	
8	SOURCE SELECT	Allows the source drive to be changed to any of the available drives in the duplicator, including the Hard Disk Drive (HDD).	

9	TRACK EDIT	Allows for the selection of individual track(s) from different master audio CDs to create custom compilation.	
	9.1 Copy Track	Allows the selection of individual track(s) from the master CD and copies the selected track(s) onto all target discs.	
	9.2. Close Disc	Closes the target discs when all of the track(s) are burned on to all target discs. Note: The copied disc(s) will NOT play back without this step. Do NOT skip this step.	
	9.3 Disc Info	Displays the information regarding the track(s) on the disc(s) and how much space is remaining on the target disc(s).	
10	UTILITY		
	10.1 Pre-scan	Performs a scan on the master disc before the copy process starts and ensures the master disc can be copied in the duplicator.	
	10.2 Quick Erase	Erases content on the media (CD-RW, DVD+/-RW, DVD+/-RW DL and BD-RE).	
	10.3 Full Erase	Erases all data on the media (CD-RW, DVD+/-RW, DVD+/-RW DL and BD-RE).	
	10.4 Eject All Trays	Ejects all disc trays, including source drive.	
	10.5 Disc Info.	Displays basic information of the discs inserted, such as disc type, amount of data on disc for master disc(s) (in MB) and media book type. For blank media, displays the media book type, available space and speed of the media.	
	10.6 Drive Info.	Displays information of all drives in the duplicator including the Reader, HDD (if present) and Writer drive(s).	
	10.7 System Info.	Displays the duplicator controller information, such as the hardware version, buffer memory and currently loaded firmware.	
	10.8 Update BIOS	Updates the firmware for the controller. Note: Please make sure that the firmware is approved by the manufacturer and compatible with the duplicator before performing the update.	
	10.9 Copy Counter	Counts the number of successful and failed copies of CD and DVD made by the duplicator.	
11	SETUP		
	11.1 Startup Menu	Assigns a command to be displayed first after the duplicator has been initialized.	
	11.2 Auto Start	Sets auto start time from OFF (no auto start) to 99 sec. Allows the duplicator to automatically start one of six following functions once the master disc and desired number of target disc(s) are inserted and the drive trays are closed: Copy, Test, Copy & Verify, Copy & Compare, Verify and Compare.	
	11.3 Display Mode	Sets the amount of information displayed on the LCD during the performance of various functions.	
	11.4 Beep	Enables or disables the audio feedback when buttons are pressed.	
	11.5 Power on Eject	Allows the duplicator to eject disc tray(s) with disc present inside upon boot-up.	
	11.6 Reader Speed	Sets the speed at which discs are read during various processes.	

	11.7 Compare Speed	Sets the speed at which the compare process is executed.
	11.8 Skip Read Error	Enables the option to halt the duplication process if there is an error on the master disc. Disables the option to allow the process to continue with the same errors as the master disc.
	11.9 Language	Allows different language selections for LCD display.
	11.10 Clear Setup	Clears the CMOS and resets the duplicator controller back to factory defaults.
	11.11 Advance Setup	Functions for advanced users.
	11.11.1 Power On Time	Sets system warm up time from 5 sec to 99 sec. Default is 15 seconds.
	11.11.2 CD Overburn	Enables or disables the duplication of overburned CDs.
	11.11.3 Boot Password	Sets password protection for machine boot-up.
	11.11.4 Setup Password	Sets password protection for changing setup options.
	11.11.5 Copy CD-TEXT	Enables or disables the copying of the CD subcode (CD-TEXT) information for audio CDs.
	11.11.6 Copy UPC/ISRC	Enables or disables the copying of the CD subcode (UPC/ISRC) information.
	11.11.7 Copy CD+G	Enables or disables the copying of the CD subcode (CD+G) information.
	11.11.8 Auto Erase	Enables or disables the erasing of the information from rewritable CD's or DVD's
	11.11.9 Image Fail	When image file fails to load into HDD, that file can be deleted from HDD.
12	HDD MANAGER	The management for various functions of the hard disk drive (HDD). Note: For this function and submenu to be displayed, a HDD must be installed in the duplicator.
	12.1 Select Image	Selects an image file as a source to be copied to the discs.
	12.2 Disc=>Image	Loads an image to the HDD from a master CD, DVD or BD as an Image file.
	12.3 Image Info.	Displays the image file information such as image order, name, file size and type of image.
	12.4 Rename Image	Renames the HDD image partition name up to 8 characters.
	12.5 Delete Image	Deletes an image file in HDD. Note: If the source file is selected to delete, the last file on the HDD will automatically be assigned as a new source file.
	12.6 HDD Info.	Displays the information in HDD, such as the number of discs stored on the HDD and the amount of space left in the HDD.
12.7 Format HDD Formats the HDD, erasing ALL data st		Formats the HDD, erasing ALL data stored on the HDD.
	12.8 Load & Copy	Allows an image to be loaded onto the HDD from a master CD, DVD or BD and automatically copied on to the target disc(s). Select from 3 modes: Synchronous, Load First and Off.

Functions:

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 information contained on the master disc to the target discs so the copies are exact duplicates of the master disc.

To Start the Copy Process:

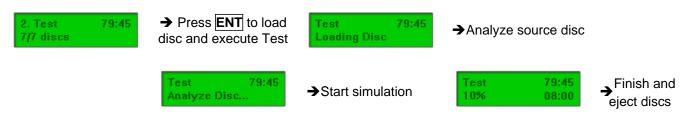
- 1. Power on the machine (if not already on).
- 2. Eject disc tray of the Source Drive and place the master disc in the designated Source Drive (usually the top). The "master disc" is the original of which copies are made.
- 3. Eject disc tray(s) of the Writer Drives and place blank disc(s) on the tray(s). Number of drives used depends on number of copies desired. It is not necessary to always use all drives.
- 4. Use the scroll buttons to select the command "1. Copy" and press the ENT button. The drives will automatically close trays and begin the copy process.
- 5. Once the copy process is completed, the disc trays will eject and the display will read "Copy Result: Pass X, Fail Y," with X being the number of successful copies, and Y being the number of failed copies. To reduce copy failure, please refer to the troubleshooting section of the manual.



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 algorism is used to verify the chance of successful copy for each target disc.

To start the Test Process:

- 1. Power on the machine (if not already on).
- 2. Eject disc tray of the Source Drive and place the master disc in the designated Source Drive (usually the top). The "master disc" is the original of which copies are made.
- 3. Eject disc tray(s) of the Writer Drives and place blank disc(s) on the tray(s). Number of drives used depends on number of discs to be tested. It is not necessary to always use all drives.
- 4. Use the scroll buttons to select the command "2. Test" and press the ENT button. The drives will automatically close trays and begin the test process.
- 5. Once the test process is complete, the disc trays will eject and the display will read "Test Result: Pass X, Fail Y, with X being the number of discs that passed the test, and Y being the number of failed copies. Use discs that have passed the test for the actual duplication.

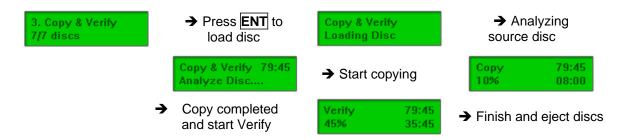


3. **Copy & Verify** – This command will perform the copy process, and immediately follow with a verification process on all target discs. This command is especially useful for audio CD duplication.

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.

To start the Copy & Verify process:

- 1. Power on the machine (if not already on).
- 2. Eject disc tray of the Source Drive and place the master disc in the designated Source Drive (usually the top). The "master disc" is the original of which copies are made.
- 3. Eject disc tray(s) of the Writer Drives and place blank disc(s) on the tray(s). Number of drives used depends on number of copies desired. It is not necessary to always use all drives.
- 4. Use the scroll buttons to select the command "3. Copy & Verify" and press the ENT button. The drives will automatically close trays and begin the copy process.
- 5. Once the copy process is completed, the tray(s) will open briefly, and then automatically close again to begin the verify process.
- 6. Once the verify process is completed, the trays will automatically eject discs that have passed the Copy & Verify process.



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

To start the Copy & Compare process:

- 1. Power on the machine (if not already on).
- 2. Eject disc tray of the Source Drive and place the master disc in the designated Source Drive (usually the top). The "master disc" is the original of which copies are made.
- 3. Eject disc tray(s) of the Writer Drives and place blank disc(s) on the tray(s). Number of drives used depends on number of copies desired. It is not necessary to always use all drives.
- 4. Use the scroll buttons to select the "4. Copy & Compare" command and press the ENT button. The drives will automatically close trays and begin the copy process.
- 5. Once the copy process is complete, the tray(s) will open briefly, and then automatically close again to begin the compare process.
- 6. Once the compare process is completed, the trays will automatically eject discs that have passed the Copy & Compare process.



5. **Verify** – This command verified readability on the master disc and/or all target discs. This command is especially useful 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.

To start the verify process, please follow the instructions below:

- 1. Power on the machine (if not already on).
- 2. Eject disc tray of the Source Drive and place the master disc to be verified in the designated Source Drive (usually the top). The "master disc" is the original of which copies are made.
- 3. Eject disc tray(s) of the Writer Drives and place copied disc(s) to be verified on the tray(s). Number of drives used depends on number of copies to be verified. It is not necessary to always use all drives.
- 4. Use the scroll buttons to select the command "5. Verify" and press the ENT button. The drives will automatically close trays and begin the verify process.
- 5. Once the verify process is complete, the trays will eject the discs that have passed the verify process.



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.

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

To start the Compare process, please follow the instructions below.

- 1. Power on the machine (if not already on).
- 2. Eject disc tray of the Source Drive and place the master disc in the designated Source Drive (usually the top). The "master disc" is the original of which copies are made.
- Eject disc tray(s) of the Writer Drives and place copied disc(s) to be compared on the tray(s).
 Number of drives used depends on number of copies to be compared. It is not necessary to always use all drives.
- 4. Use the scroll buttons to select the command "6. Compare" and press the ENT button. The drives will automatically close trays and begin the compare process.
- 5. Once the compare process is complete, the trays will eject the discs that have passed the compare process.



 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, 52, 56, MAX.

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

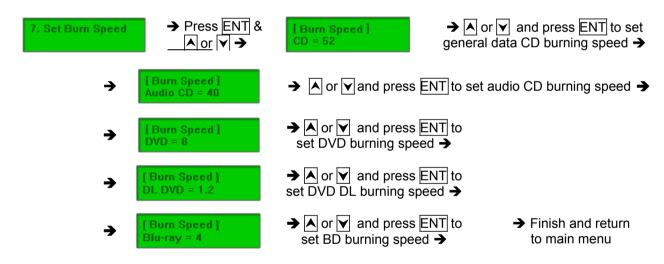
DVD: 1, 2, 2.4, 4, 6, 8, 12, 16 (default), 18, 20, MAX. **DVD DL:** 1, 2 (default), 2.4, 4, 6, 8, 12, 16, 18, 20, MAX.

Blu-ray: 1, 2, 4, 6, 8, MAX.

To Set the Burn Speed:

1. Power on the machine (if not already on)

- 2. Use the Scroll buttons to select "7. Set Burn Speed". Press the ENT button.
- 3. The first speed selection is for general CDs. Use the Scroll buttons to select the desired burn speed and press the ENT button.
- 4. The second speed selection is for audio CDs. Use the Scroll buttons to select the desired burn speed and press the ENT button.
- 5. The third speed selection is for DVDs. Use the Scroll buttons to select the desired burn speed and press the ENT button. Note: The selection is only available on DVD duplicators.
- 6. The fourth speed selection is for DVD DL. Use the Scroll buttons to select the desired burn speed and press the ENT button. Note: The selection is only available on DVD duplicators.
- 7. The last speed selection is for Blu-ray. Use the Scroll buttons to select the desired burn speed and press the ENT button. Note: The selection is only available on Blu-ray duplicators.



8. **Source Select**– 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).

To change the source drive inside the unit to a different drive:

- 1. Power on the machine (if not already on).
- 2. Use the Scroll buttons to select the "8. Select Source: Press the ENT button.
- The current Source Drive will be displayed along with the partial model number of the drive and the port number in brackets.
- 4. Use the Scroll buttons to select from other available drives until the port number of the desired drive is displayed.
- 5. Press the ENT button. The desired drive will then become the Source Drive.

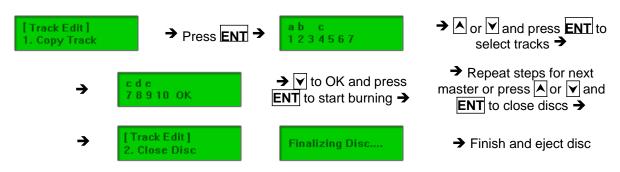




9. **Track Edit** – This command allows users to select tracks from multiple audio CDs and burn to target CDs. This command also closes edited audio CDs and displays the disc information.

To create and copy custom compilation audio CDs from multiple master discs:

- 1. Power on the machine (if not already on).
- 2. Use the Scroll buttons to select "9. Edit Track". Press the ENT button.
- 3. The display will read "[Edit Track] 1. Copy Track". Press the ENT button.
- 4. The display will read "Waiting....Master Disc". Insert the first master disc and press the ENT button.
- 5. Once the master disc is successfully read, the display will read "Waiting....Blank Disc". Insert blank disc(s) into writer drive(s) and press the ENT button.
- 6. The number of tracks on the master CD will be displayed on the lower half of the screen. Use the Scroll buttons to select track(s) to be copied. In alphabetical order, a lower-case letter will be assigned to the tracks selected.
- 7. Once the selection of tracks is finished, use the Scroll buttons to select "OK" at the end of the numeric listing of tracks. Press the ENT button.
- 8. The duplicator will begin copying the selected track(s) to the target CD(s). Once the copy process is completed, the display will read the number of tracks that are currently on the target CD(s), time used on the target CD(s) and time left (free spaces). Press the ENT button.
- 9. The display will now read "[Edit Track] 1. Copy Track". If tracks from a different master CD are desired, press the ENT button and repeat steps 4 through 8 for each different master CD. If selection of tracks is completed, proceed to step 10.
- 10. Use the Scroll buttons to select "[Edit Track] 2. Close Disc". Press the ENT button.
- 11. The target disc(s) will now be finalized and closed for completion. Once completed, the disc(s) will be automatically ejected. This concludes the Edit Track process.



Note: A copied audio CD must be closed (finalized) before it can be played back.

- a. Once all tracks to be copied have been selected, press vto select "OK" on the display.

 Press ENT to confirm and begin the copy process.
- b. Once the track selection is entered, the LCD screen will read "Copying Audio Tracks...", and display the track number, total time of current track and the current copying status.

Track 02	06:14
Сору	03:14

c. Once the copy process is completed, the LCD screen will display the total number of tracks on target CD(s), total time used and total time remained.



d. Repeat the track selection and copy process until all desired tracks have been copied to target disc(s). Proceed with disc closing process.

Note: Once disc closing process is performed, no more track(s) can be added to target CD(s).

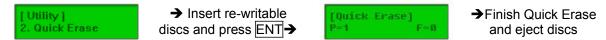
- 10. **Utility** This command contains various tools to check functionality of the drive(s), information of the components, and other system information.
 - 1.) **Prescan:** Prescans the master disc and verifies the integrity and quality of the master disc.
 - a. Select Utility and press ENT to enter the sub-menu.



b. Select 1. Pre-scan and press ENT



2.) **Quick Erase:** Performs a quick erase of rewritable (RW) media for next use. **Note:** Do NOT perform this function on recordable (R) media.



3.) **Full Erase:** Performs a full erase of rewritable (RW) media for next use. **Note:** Do NOT perform this function with recordable (R) media.



4.) **Eject All Discs:** Performs a simultaneous ejection of all of the optical disk drive(s) on the duplicator.



5.) **Disc Info:** Checks the capacity and space used on the disc(s) inside of the drive(s) of the duplicator.



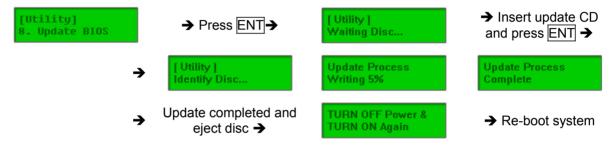
6.) **Drive Info:** Checks the make, model, firmware and the channel (port) of the drive(s) that are connected to the duplicator controller.



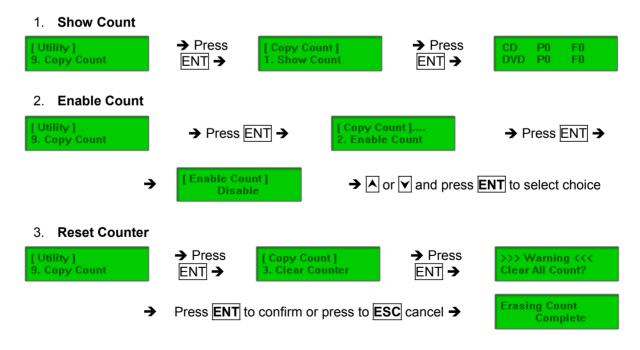
7.) **System Info:** Checks the model number, buffer memory and firmware version of the duplicator controller.



8.) Update BIOS: Updates the BIOS (firmware) of the duplicator controller.



9.) **Copy Counter:** Tracks the numbers of successful and failed copies made by the duplicator for CDs and DVDs. There are three (3) parts of this tool: Show Count (to display current copy counter), Enable Counter (to turn the counter on or off) and Reset Counter (to clear counter).



- 11. **Setup** This command contains options to configure the duplicator system.
 - 1.) **Start-up Menu:** Sets the command to be displayed first when the machine is powered up and initialized. All primary commands are available to be set for Start-up: Copy, Test, Copy & Verify, Copy & Compare, etc.



2.) **Auto Start:** Set the amount of time before the duplicator will automatically start the selected command ranging from OFF (no auto start) to 99 seconds in 1-second increments (1, 2, 3....97, 98, 99).



3.) **Display Mode:** Changes the display readout during the performance of various commands. The "Basic" 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). The "Expert" mode displayed the percentage of the process completed, the amount of data transferred and the total amount of data on the master disc.



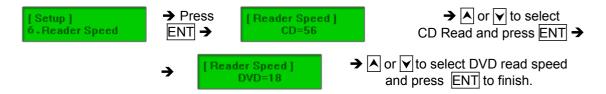
4.) Beep: Turns the audio signal (a beeping sound) ON or OFF for pressing of the buttons.



5.) **Power on Eject:** Allows the drive(s) with disc(s) present inside to eject the disc trays when the machine is done initializing.



6.) **Reader Speed:** Sets the reader speed for the duplicator to read the master disc(s). The speeds for CD are: 1, 2, 4, 8, 10, 12, 16, 20, 24, 32, 36, 40, 44, 48, 52, 56 (default), MAX. The speeds for DVD are: 1, 2, 2.4, 4, 6, 8, 10, 12, 16, 18, 20 (default), MAX. The read speed for BD is pre-set to MAX variable upon drive and media speed.



7.) **Compare Speed:** Sets the speed at which the master disc is compared with the copies disc(s). The speeds for CD are: 1, 2, 4, 8, 10, 12, 16, 20, 24, 32, 36, 40 (default), 44, 48, 52, 56, MAX. The speeds for DVD are: 1, 2, 2.4, 4, 6, 8, 12, 16 (default), 18, 20 MAX. The compare speed for BD is pre-set to MAX variable upon drive and media speed.



8.) **Skip Read Error:** Allows the duplicator to skip uncorrectable read errors on the master BD, DVD or CD. This feature can be turned ON or OFF.



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



10.) Clear Setup: Resets the duplicator controller back to factory default settings.



- 11.) Advance Setup: Functions for advanced users.
 - (1) **Power On Time:** Set the amount of time the duplicator controller counts down before initializing the system. The default is 15 seconds. The time can be set from 5 to 99 seconds in 1-second increments (5.6,7....97,98,99).



(2) **CD Overburn:** Allows 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.



(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.



If Enable is selected, a password must be entered using the following guidelines:



Use ♠ or ▼ to select the character desired.

Press ENT to go to the next position.

There are a total of 6 positions for the password. To enable the password, set all 6 positions.

For space, press ENT without choosing a character to leave the position empty.

Press ESC to cancel the process.

The duplicator will ask for password when the unit is restarted.

(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.

If Enable is selected, a password must be entered using the following guidelines:



Use or to select the character desired.

Press ENT to go to the next position.

There are a total of 6 positions for the password. To enable the password, set all 6 positions.

For space, press ENT without choosing a character to leave the position empty.

Press ESC to cancel the process.

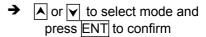
The duplicator will ask for password when "11. Setup" is selected

(5) Copy CD-TEXT: Allows the copying of the CD-TEXT on the master disc(s) to the target disc(s).

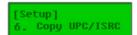








(6) Copy UPC/ISRC: Allows the copying of the UPC/ISRC on the master disc(s) to the target disc(s).

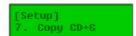






→ or v to select mode and press ENT to confirm

(7) Copy CD+G: Allows the copying of CD+G files on the master disc(s) to the target disc(s).

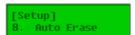






→ or v to select mode and press ENT to confirm

(8) Auto Erase: Allows the erasing of files on the rewriteable CD's or DVD's







→ A or V to select mode and press ENT to confirm

- (9) Image Fail: When image file fails to load into HDD, that file can be deleted from HDD.
- 12. **HDD Manager** 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.
 - 1.) **Select Image:** Allows the selection of the image(s) present on the HDD. The Scroll buttons cycle through the image(s) on the HDD and the ENT button confirms the selection while the ESC button cancels the selection. The image(s) are listed in order of which they were loaded.



→ Press



→ or to select image and press ENT to confirm

2.) **Disc => Image:** Transfers the information from the master CD/DVD/BD to the HDD. After the image(s) transfer is complete, the reader drive is ejected and the source drive is changed to the HDD.



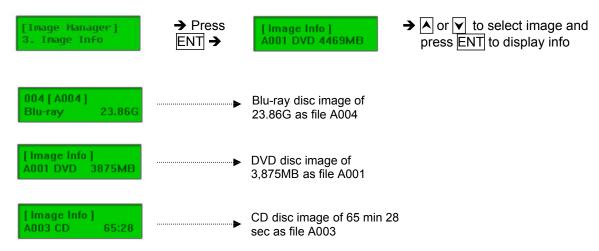
→ Press



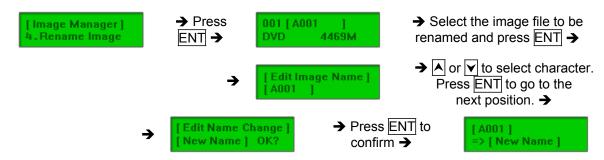
→ The source disc loaded to HDD as image file, A001. → Disc ==> A001]
Finished!

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

3.) **Image Info:** Shows the image number 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 (in GB for Bluray, MB for DVD or time for CD).



4.) **Rename Image:** Renames the image instead of using default file names (A001, A002, etc.). Up to 8 characters.



There are 8 characters for each image name. No empty space allowed in the image file name. Press ESC to cancel the process.

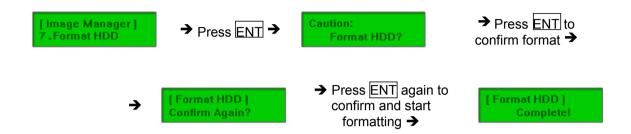
5.) **Delete Image:** Deletes the image(s) from the HDD and reclaims the space occupied by the image on the HDD.



6.) **HDD Info:** Shows the amount of used and free images available on the HDD in both CD and DVD formats.



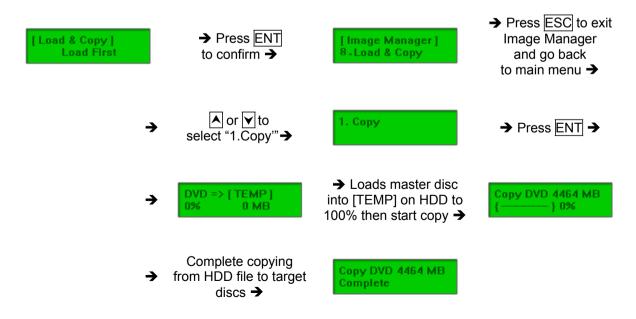
7.) **Format HDD:** Deletes and formats all image(s) on the HDD, restores the HDD to factory defaults and initializes the HDD for use with the duplicator.



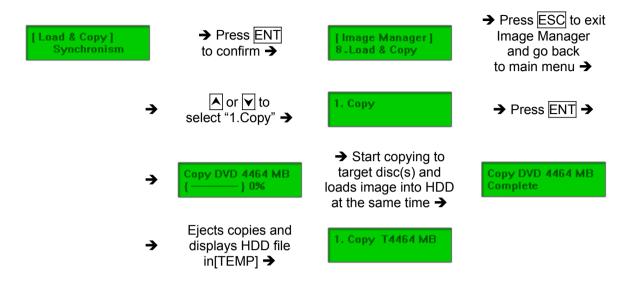
8.) **Load and Copy:** There are three (3) modes in this function.



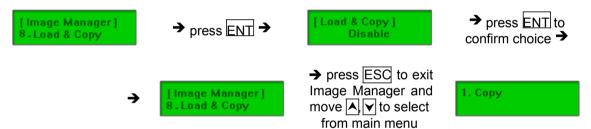
(a) **Load First:** Completes loading of the image(s) to the HDD before automatically begins the copy process from the image stored on the HDD to all target disc(s). Image(s) are loaded one at a time and copied to the Writer Drives with blank disc(s) ready. The image(s) are stored in a [TEMP] partition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



(b) **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 in the [TEMP] directory on the HDD.



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



Basic Troubleshooting:

Follow these simple steps for quick and proper troubleshooting.

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.

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.

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.

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.

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.

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

- a. Check USB and/or Firewire 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.

7. The blank CD or DVD or Blu-ray is not recognized in the writer drive(s)

- 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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