

SPARTAN

FORTRESS CD/DVD Duplicator System



TABLE OF CONTENTS

| | | | | | |
|--------------------------|-----|---------------------|----|-----------------------|----|
| Introduction | 1 | • Setup | 11 | ○ Rename Image | 15 |
| Specifications | 1 | ○ Power on Time | 11 | ○ Delete Image | 15 |
| LCD Front Panel Overview | 1 | ○ Auto Start Time | 11 | ○ Show HDD Info | 16 |
| Menu Overview | 2-3 | ○ Start-up Menu | 11 | ○ Format HDD | 16 |
| Functions | 4 | ○ Display Mode | 11 | ○ Load and Copy | 16 |
| • Copy | 4 | ○ Button Beep | 11 | • DiskLock | 17 |
| • Test | 4 | ○ Skip Read Error | 11 | ○ Enable DiscLock | 17 |
| • Copy & Verify | 5 | ○ Eject on Start | 12 | ○ DiscLock Copy | 18 |
| • Copy & Compare | 5 | ○ Show Copy Time | 12 | ○ Set Burn Speed | 18 |
| • Verify | 6 | ○ Reader Speed | 12 | ○ Select Source | 18 |
| • Compare | 6 | ○ Compare Speed | 12 | ○ Utility | 19 |
| • Set Burn Speed | 7 | ○ Change Bad Master | 12 | ○ Setup | 19 |
| • Select Source | 7 | ○ CD Overburn | 12 | ○ Set Burn Speed | 19 |
| • Edit Track | 8 | ○ Copy CD-Text | 13 | ○ Disable DiscLock | 19 |
| • Utility | 9 | ○ Show HDD Image | 13 | Basic Troubleshooting | 20 |
| ○ Prescan | 9 | ○ Boot Password | 13 | | |
| ○ Quick Erase | 9 | ○ Setup Password | 13 | | |
| ○ Full Erase | 9 | ○ Language | 14 | | |
| ○ Eject All Discs | 9 | ○ Clear Setup | 14 | | |
| ○ Disc Info | 10 | • Image Manager | 14 | | |
| ○ Drive Info | 10 | ○ Select Image | 14 | | |
| ○ System Info | 10 | ○ Disc => Image | 14 | | |
| ○ Update BIOS | 10 | ○ Set Reader Speed | 15 | | |
| ○ Copy Count | 10 | ○ Show Image Info | 15 | | |

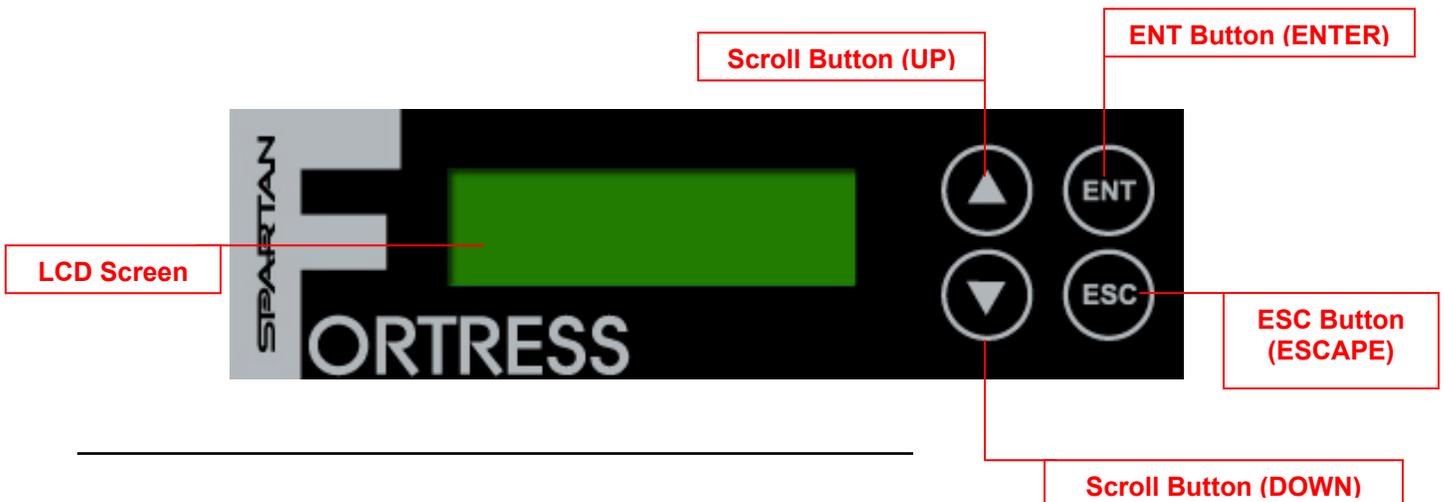
Introduction:

Thank you for purchasing the standalone Spartan Fortress CD/DVD Duplicator. This system is specifically engineered to copy CD and/or DVD 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 Spartan Fortress CD/DVD Duplicator provides a fast and reliable solution for CD and DVD duplication up to 11 targets from one single master disc.

Operating Environment:

| | | |
|--------------------|---------------------|------------------------------|
| Temperature | Working Temperature | 0°C ~ 60°C 32°F ~ 140°F |
| | Storage Temperature | -20°C ~ 85°C -4°F ~ 185°F |
| Humidity | Working Humidity | 20%~80% |
| | Storage Humidity | 5%~95% |

LCD Front Panel Overview:



Control Buttons: There are 4 control buttons: , , , 

 : **Up, Backward:** To navigate backward in the menu.

 : **Down, Forward:** To navigate forward in the menu.

 : **Enter, OK:** Execute the function.

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

Menu Overview:

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

| | | |
|----|----------------------------|---|
| 1 | COPY | Copies the master CD/DVD. 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 DVD-R and CD-R media only. |
| 3 | COPY & VERIFY | Copies the master CD/DVD, 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, 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 | SELECT SOURCE | 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 all rewritable media (CD-RW and DVD+/-RW, DVD+/-RW DL). |
| | 10.3 Full Erase | Formats all rewritable media (CD-RW and DVD+/-RW, DVD+/-RW DL). |
| | 10.4 Eject All Disc | 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 Count | Counts the number of successful and failed copies of CD and DVD made by the duplicator. |
| 11 | SETUP | |
| | 11.1 Power On Time | Sets system warm up time from 5 sec to 99 sec. Default is 15 seconds. |
| | 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 Startup Menu | Assigns a command to be displayed first after the duplicator has been initialized. |
| | 11.4 Display Mode | Sets the amount of information displayed on the LCD during the performance of various functions. |
| | 11.5 Button Beep | Enables or disables the audio feedback when buttons are pressed. |
| | 11.6 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. |
| | 11.7 Eject on Start | Allows the duplicator to eject disc tray(s) with disc present inside upon boot-up. |
| | 11.8 Show Copy Time | Enables or disables the copy time to be displayed when the copy process is finished. Also allows for the various other timed functions to display the completion time. |
| | 11.9 Reader Speed | Sets the speed at which discs are read during various processes. |
| | 11.10 Compare Speed | Sets the speed at which the compare process is executed. |
| | 11.11 Change Bad Master | Enables or disables changing of a master disc during the copy process when an error is detected on the master disc. |
| | 11.12 CD Overburn | Enables or disables the duplication of overburned CDs. |
| | 11.13 Copy CD-TEXT | Enables or disables the copying of the CD subcode (CD-TEXT) information for audio CDs. |
| | 11.14 Show HDD Image Name | Allows the image name to be displayed on the LCD screen when selecting the HDD as the source drive. |
| | 11.15 Boot Password | Sets password protection for duplicator boot-up. |
| | 11.16 Setup Password | Sets password protection for changing setup options. |
| | 11.17 Language | Allows different language selections for LCD display. |
| | 11.18 Clear Setup | Clears the CMOS and resets the duplicator controller back to factory defaults. |
| 12 | IMAGE 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 or DVD as an Image file. |
| | 12.3 Set Reader Speed | Sets the speed of data loading from the master CD/DVD to the HDD. |

| | |
|-----------------------------|--|
| 12.4 Image Info. | Displays the image file information such as image order, name, file size and type of image. |
| 12.5 Rename Image | Renames the HDD image partition name up to 8 characters. |
| 12.6 Delete Image | Deletes an image file in HDD. Note: A file selected as the source file cannot be deleted until a different image is selected. See 12.1. |
| 12.7 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. |
| 12.8 Format HDD | Formats the HDD, erasing ALL data stored on the HDD. |
| 12.9 Load & Copy | Allows an image to be loaded onto the HDD from a master CD or DVD 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 duplicator (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.

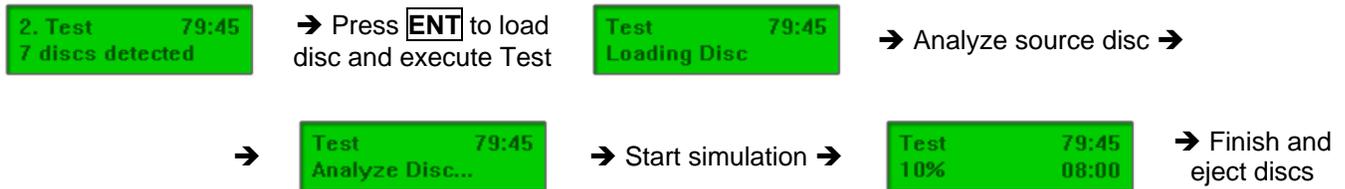


2. **Test** – This command will simulate the copy process and make sure all target discs are usable. The test process does NOT burn anything to the blank disc(s). A built-in diagnostic algorithm is used to verify the chance of successful copy for each target disc.

To start the Test Process:

1. Power on the duplicator (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.

- 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.



- 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:

- Power on the duplicator (if not already on).
- 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 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.
- 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.
- Once the copy process is completed, the tray(s) will open briefly, and then automatically close again to begin the verify process.
- Once the verify process is completed, the trays will automatically eject discs that have passed the Copy & Verify process.



- 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 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:

- Power on the duplicator (if not already on).
- 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 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 duplicator (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.5



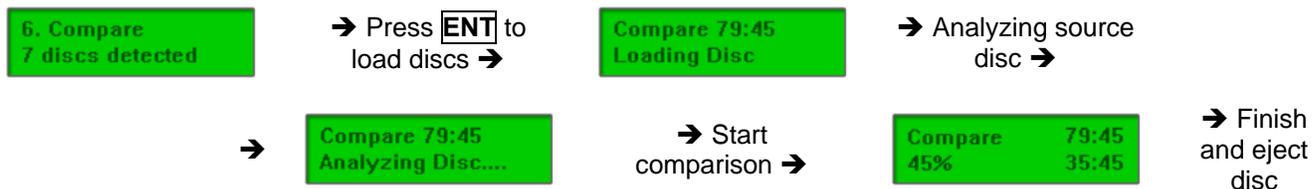
6. **Compare** – This command compares copied disc(s) to the master disc and ensures that the copies are exact duplicates of the master disc. This command is especially useful for DVDs, data CDs and video CDs.

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 duplicator (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.
- 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.
- 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: general CDs (data and VCDs), audio CDs, DVDs and dual-layer DVDs (DVD DL).

Selectable burn speeds:

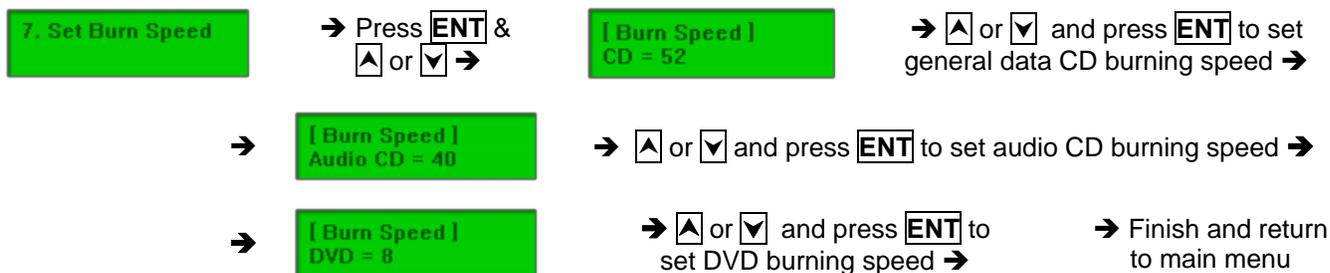
CD: 1, 2, 4, 8, 10, 12, 16, 20, 24, 32, 36, 40 (default), 44, 48, 52, 56 MAX.
 Audio CD: 1, 2, 4, 8, 10, 12, 16, 20, 24 (default), 32, 36, 40, 44, 48, 52, 56 MAX.
 DVD: 1, 2, 2.4, 4, 6, 8 (default), 12, 16, 18, 20 MAX.
 DVD DL: 1.2 (default), 2.4, 4, 6, 8, 12, 16, 18, 20 MAX.

To Set the Burn Speed:

- Power on the duplicator (if not already on)
- Use the Scroll buttons to select “7. Set Burn Speed”. Press the ENT button.
- The first speed selection is for general CDs. Use the Scroll buttons to select the desired burn speed and press the ENT button.
- The second speed selection is for audio CDs. Use the Scroll buttons to select the desired burn speed and press the ENT button.
- 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.
- The last 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.

- Select Source** – 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:



- Power on the duplicator (if not already on).
- Use the Scroll buttons to select the “8. Select Source: Press the ENT button.

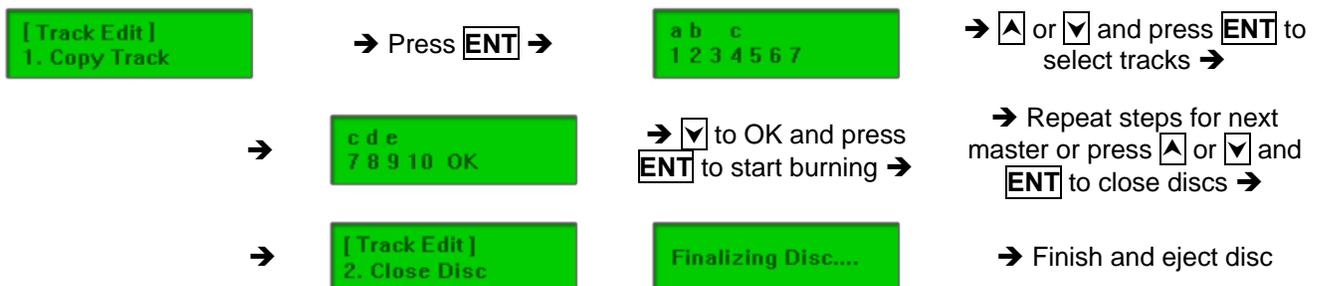
3. The current Source Drive will be displayed along with the partial model number of the drive and the port number in brackets.
4. Use the Scroll buttons to select from other available drives until the port number of the desired drive is displayed.
5. Press the ENT button. The desired drive will then become the Source Drive.



9. **Edit Track** – 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 duplicator (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 to select “OK” on the display. Press 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.



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 to enter the sub-menu.



b. Select 1. Pre-scan and press



→ Press →



→ Finish Prescan →



2. **Quick Erase:** Performs a quick erase of rewritable (RW) media for next use.

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



→ Insert re-writable discs and press →



→ Finish Quick Erase and eject discs

Note: If the display shows “O” “o” blinking, Erasing is in progress. If the display shows “F” “f” blinking, DVD+RW Disc Formatting is in progress.

3. **Full Erase:** Performs a full erase and format of rewritable (RW) media for next use.

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



→ Insert re-writable disc and press →



→ Finish Full Erase and eject discs

Note: If the display shows “O” “o” blinking, Erasing is in progress. If the display shows “F” “f” blinking, DVD+RW Disc Formatting is in progress.

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

[Utility]
4. Eject All Disc

→ Press **ENT** → All disc trays will open

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

[Utility]
5. Disc Info.

→ Press **ENT** →

[1] 79:59
CD-R Use 27:53

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

[Utility]
6. Drive Info.

→ Press **ENT** →

[#1] Port 8.0 3.38
CD-ROM Max 52X

→ Press **▲** or **▼** to select different Drives

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

[Setup]
7. System Info.

→ Press **ENT** →

P727 DVD 64MB
Ver: 1.00

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

[Setup]
8. Update BIOS

→ Press **ENT** →

Upgrade BIOS
Waiting Disc...

→ Insert update CD and press **ENT** →

→

Upgrade BIOS
Identify Disc

Start update...
Writing 5%

Start update...
Pass

→

Update completed and
eject disc →

New BIOS update
Restart System!

→ Re-boot system

9. **Copy Count:** Tracks the numbers of successful and failed copies made by the duplicator for both 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).

1. Show Count

[Utility]
1. Copy Count

→ Press **ENT** →

[Copy Count]
1. Show Count

→ Press **ENT** →

CD P0 F0
DVD P0 F0

2. Enable Count

[Utility]
9. Copy Count

→ Press **ENT** →

[Copy Count]...
2. Enable Count

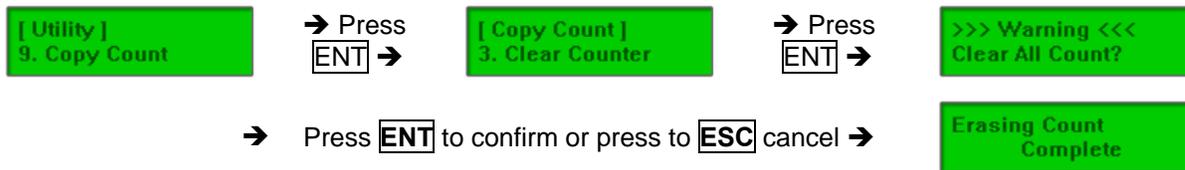
→ Press **ENT** →

→

[Enable Count]
Disable

→ **▲** or **▼** and press **ENT** to select choice

3. Reset Counter

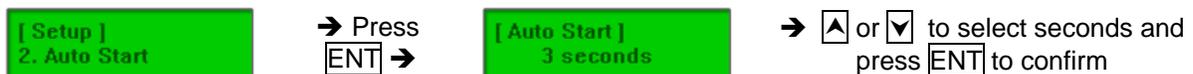


11. **Setup** – This command contains options to configure the duplicator system.

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. **Auto Start Time:** 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. **Start-up Menu:** Sets the command to be displayed first when the duplicator is powered on and initialized. All primary commands are available to be set for Start-up: Copy, Test, Copy & Verify, Copy & Compare, etc.



4. **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.



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



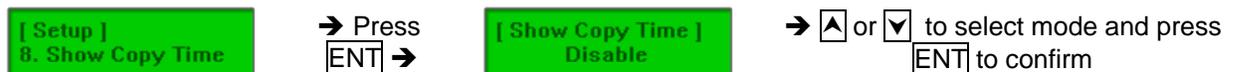
6. **Skip Read Error:** Allows the duplicator to skip uncorrectable read errors on the master DVD or CD. This feature can be turned ON or OFF.



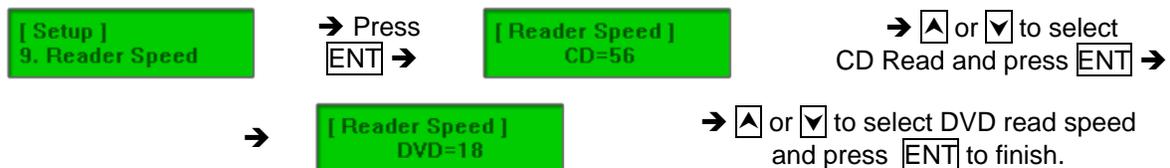
7. **Eject On Start:** Allows the drive(s) with disc(s) present inside to eject the disc trays when the duplicator is done initializing.



8. **Show Copy Time:** Allows the display of total time taken for the copy process to be complete.



9. **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.



10. **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.



11. **Change Bad Master:** Allows the changing of the master disc during duplication when there is an uncorrectable error on the master disc(s) that threatens to disrupt the copy process.



12. **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.

[Setup]
12. CD Overburn

→ Press
[ENT] →

[CD Overburn]
Disable

→ [▲] or [▼] to select mode and
press [ENT] to confirm

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

[Setup]
13. Copy CD-TEXT

→ Press
[ENT] →

[copy CD-TEXT]
Disable

→ [▲] or [▼] to select mode and
press [ENT] to confirm

14. **Show HDD Image:** Allows the option to display the name of the HDD image name (default) or the image size (in MB).

[Setup]
14. Show HDD Image

→ Press
[ENT] →

[Show HDD Image]
Image Name

→ [▲] or [▼] to select Image
Name/ Capacity and press
to [ENT] confirm

15. **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.

[Setup]
15. Boot Password

→ Press
[ENT] →

Boot Password
Disable

→ [▲] or [▼] to select mode and
press [ENT] to confirm

If Disable is selected, no password will be set and the display will direct back to the Setup sub-menu.

[Setup]
15. Boot Password

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

Boot Password
==> _

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.

16. **Setup Password:** Sets password protection for the duplicator before the setup settings can be altered. The setup password prevents unauthorized changes to the system.

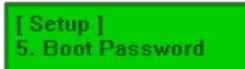
[Setup]
16. Setup Password

→ Press
[ENT] →

Setup Password
Disable

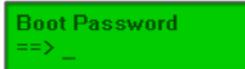
→ [▲] or [▼] to select mode and
press [ENT] to confirm

If Disable is selected, no password will be set and the display will direct back to the Setup sub-menu.



[Setup]
5. Boot Password

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



Boot Password
==> _

Use  or  to select the character desired.

Press  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  without choosing a character to leave the position empty.

Press  to cancel the process.

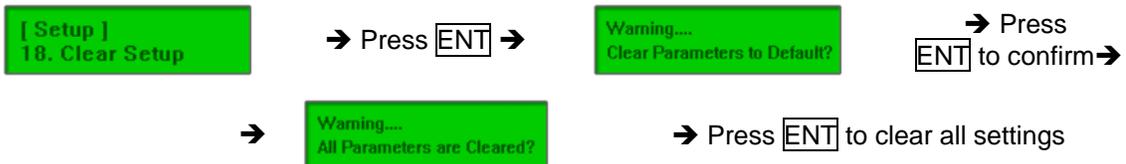
The duplicator will ask for password when "11. Setup" is selected

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



[Setup]
17. Language → Press  → [Language]
English →  or  to select language and press  to confirm

18. **Clear Setup:** Resets the duplicator controller back to factory default settings.



[Setup]
18. Clear Setup → Press  → Warning...
Clear Parameters to Default? → Press  to confirm →
Warning...
All Parameters are Cleared? → Press  to clear all settings

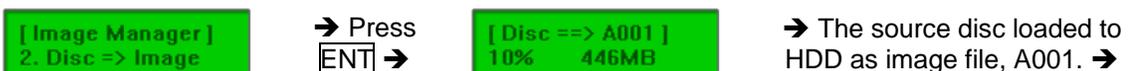
12. **Image Manager** – This command is for the management of the hard disk drive (HDD) installed in the duplicator. **Note:** This feature is only available on duplicators with a HDD installed. If there is no HDD present in the duplicator, this feature will NOT show in the menu of commands.

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.

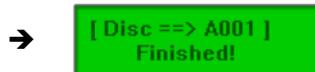


[Image Manager]
1. Select Image → Press  → [Select Image]
A001 DVD 4469M →  or  to select image and press  to confirm

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



[Image Manager]
2. Disc => Image → Press  → [Disc ==> A001]
10% 446MB → The source disc loaded to HDD as image file, A001. →



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

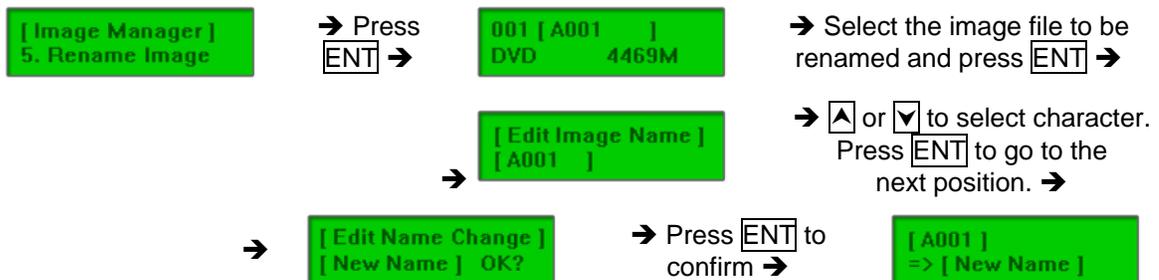
- Set Reader Speed:** Change the read speed (load speed) for the HDD. The speeds for CD are: 1, 2, 4, 8, 10, 12, 16, 20, 24, 32, 36, 40, 44, 48, 52, 56 (default), MAX. The speeds for DVD are: 1, 2, 2.4, 4, 6, 8, 10, 12, 16, 18, 20 (default), MAX.



- Show 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 MB for DVD or time for CD).



- 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.

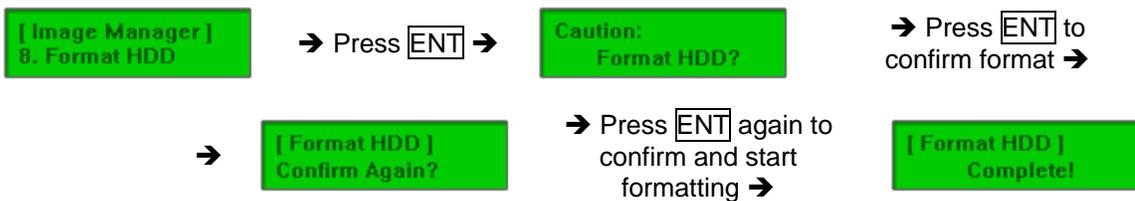
- Delete Image:** Deletes the image(s) from the HDD and reclaims the space occupied by the image on the HDD.



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



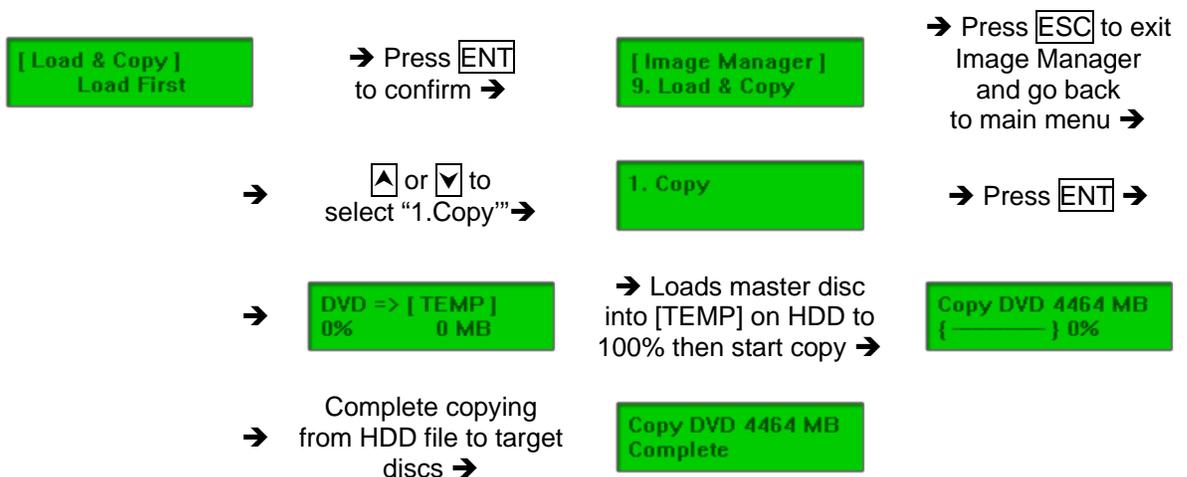
8. **Format HDD:** Deletes and formats all image(s) on the HDD, restores the HDD to factory defaults and initializes the HDD for use with the duplicator.



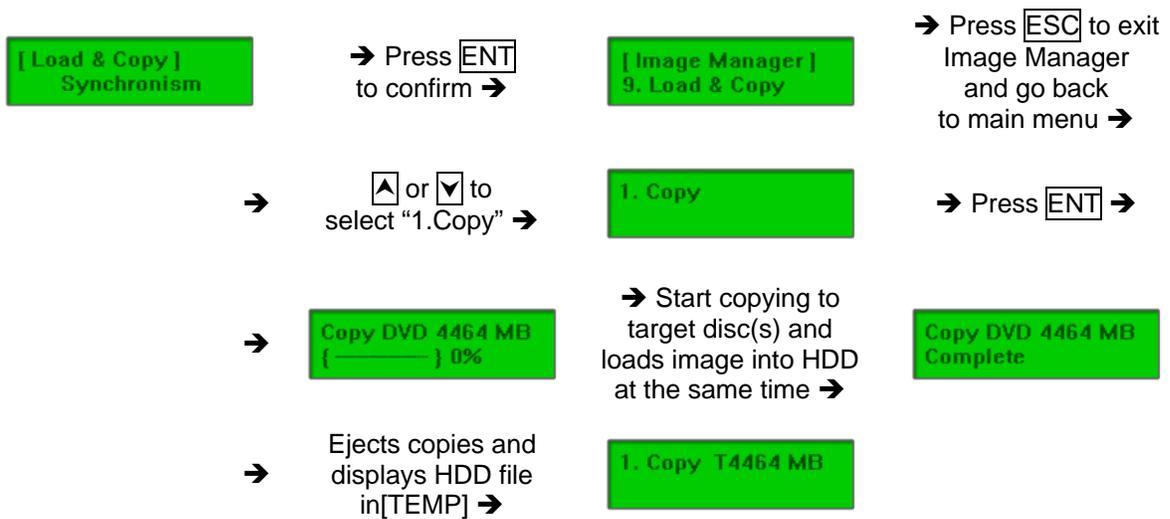
9. **Load and Copy:** There are three (3) modes in this function.



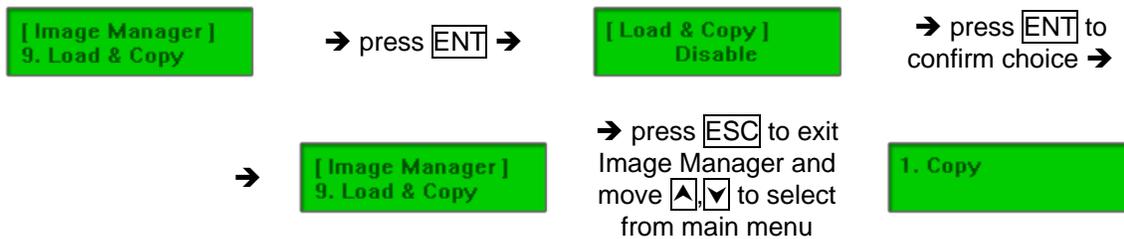
a) **Load First:** Completes loading of the image(s) to the HDD before automatically begins the copy process from the image stored on the HDD to all target disc(s). Image(s) are loaded one at a time and copied to the Writer Drives with blank disc(s) ready. The image(s) are stored in a [TEMP] partition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



Special Feature: DiscLock CD/DVD duplication

The "DiscLock" feature implements a simple encryption protocol on your copied discs so they cannot be copied in another duplicator. Protect your copies and your investment from unauthorized duplication with the "DiscLock" feature in the Spartan Fortress Duplicator.

How to Enable the DiscLock Feature

1. Power on the duplicator (if not already on).
2. Use the Scroll buttons to select "12. Enable DiscLock" from the Main Menu. Press the **ENT** button.
Note: If there is a HDD present in your duplicator, this feature will be #13 instead of #12.
3. This enables the DiscLock feature.



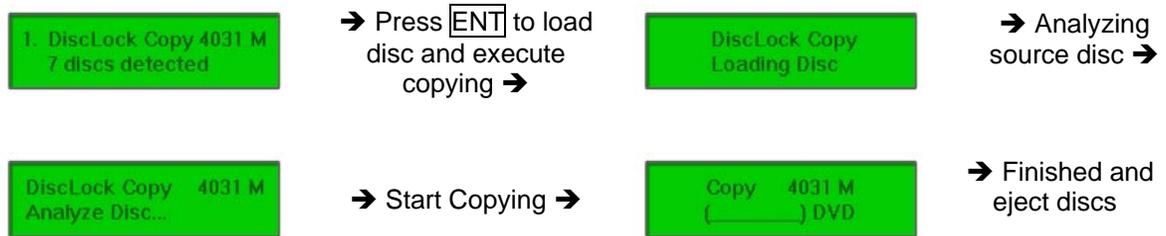
Note:

- The DiscLock feature will work for DVD-R only. DVD+R and CD formats are not supported at this time but may be supported with a firmware revision in the future.

- In order for the DiscLock Feature to be successfully implemented on your DVD-R discs, 40 MB of free space must be allocated on the blank DVD-R discs.
- The DiscLock feature is only used for DVD to DVD (disc-to-disc) copying. The HDD-to-disc copying cannot support this feature as the HDD cannot be used in conjunction with the DiscLock feature.
- This feature is only for the DVD-Video format only. DVD-Data and other formats are not supported at this time but may be supported with a firmware revision in the future.

The menu options are as followed when the DiscLock feature is enabled:

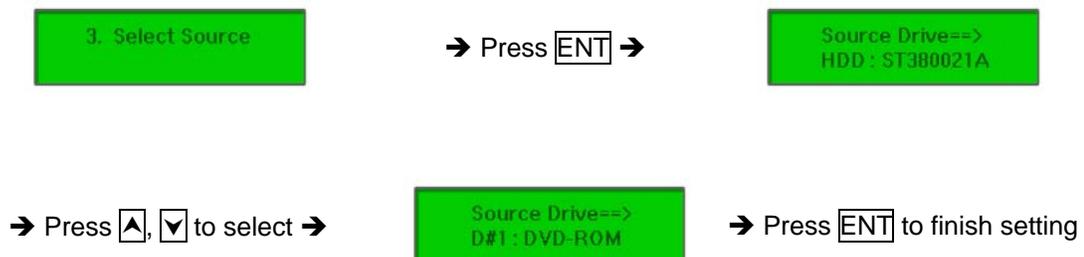
1. **DiscLock Copy:** The DiscLock copy function is the copy function with the DiscLock protection protocol to be implemented on the copied disc(s).



2. **Set Burn Speed** – This feature allows you to set the burn speed of DVD with DiscLock feature implemented (1, 2, 2.4, 4, 6, 8, 12, 16, 18, 20, MAX).



3. **Select Source** – 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). The DVD-ROM drive is the default source drive.



- *Note: If HDD was selected as Source, then follow the instructions on “Select Image” to select specific image files as your reading source..*
- *Note: Each drive will be assigned a Drive # according to the installation sequence. If there is no HDD installed, then the Reader Drive is automatically set as Drive#1.*
- *Note: The DiscLock feature is only available for DVD to DVD (disc-to-disc) copying. The HDD-to-disc copying cannot support this feature as the HDD cannot be used in conjunction with the DiscLock feature.*

4. **Utility** – This command contains various tools such as Pre-Scan, the checking of the drive and controller information, firmware revisions, etc. Please refer to the “Utility” section of this manual for details.
5. **Setup** – This command contains options to configure the duplicator system. The Setup menu is truncated when the DiscLock feature is enabled. The three functions available under the DiscLock Setup menu are as followed:

1. **Auto Start Time:** Set the amount of time before the duplicator will automatically start.
 Note: When the DiscLock feature is enabled, the master disc plus at least one blank disc must be placed in the duplicator accordingly before the duplicator can perform Auto Start.



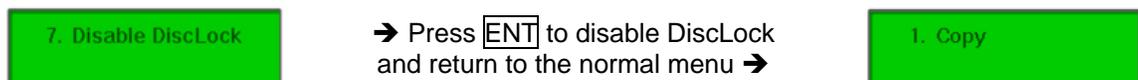
2. **Button Beep:** Turns the audio signal (a beeping sound) ON or OFF for pressing of the buttons.



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



6. **Image Manager (HDD required)**–This command is for the management of the hard disk drive (HDD) installed in the duplicator, such as information and image(s) stored on the HDD. Please refer to the “Image Manager” section of this manual for details. **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.
7. **Disable DiscLock**– Disables the DiscLock feature so the copies will remain in their original state. No protection will be implemented on the copies discs. The menu will go back to its original list of commands and setting. *Note: if there is no HDD present, this feature will be #6 instead of #7.*



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. **Duplicator 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 duplicator 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 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.
 - c. Change the brand of media or media type. Certain types of media may not be compatible with the drives. Poor-quality media can also cause high failure rate.