



**Systor SYS3 Series
Hard Drive Duplicator**

User Manual

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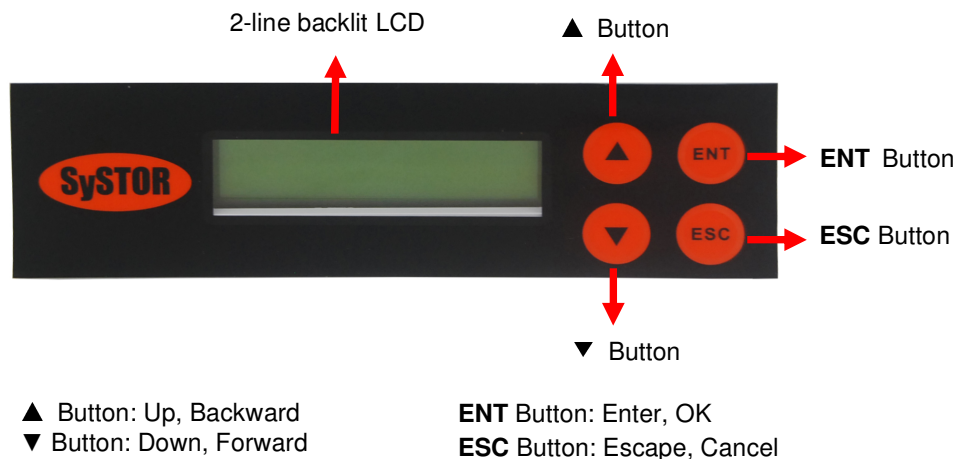
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I. Introduction

1. Features

- Each processing channel has its own control unit and operates independently with dedicated bandwidth of up to 300 MB/s, which is the fastest speed of HDD duplication on the market.
- Standalone operation. No PC or software is required, minimizing possible computer virus infection.
- Instant power on and off, no warm-up or cool-down required.
- Easy-to-use One-Touch copy operation.
- Compare function available for verification of copy accuracy
- Menu options are user-friendly and easily accessed through the 4-button control panel. Use ▲ or ▼ button to scroll through the options and view the operation status of each channel on the 2-line backlit LCD display.
- Powerful 32-bit CRC checksum to assure data integrity.
- Heavy-duty hardware construction for commercial production or personal use.
- 115V and 230V switching power supply maximizes portability for operation anywhere.
- Designed to save users time and effort in creating multiple copies quickly and reliably.
- Unique source data analysis to copy data area only to achieve highest efficiency
- Supports multiple file formats: Windows: FAT 16/32、exFAT、NTFS, Linux: Ext 2/3/4, Mac: HFS/HFS+

2. Control Panel Overview



3. Specifications

Operation	Standalone (No PC or software is required)	
Supported HDD	3.5" SATA HDD, 2.5" SATA HDD and SSD with optional adapter (SATA I, II, III)	
Display	2-line Backlit Monochrome LCD	
Power Supply	115V or 230V	
Control Button	4 push-button control panel (ENT, ESC, UP, DOWN)	
Humidity	Working	20% ~ 80%
	Storage	5% ~ 95%
Temperature	Working	32°F ~ 167°F
	Storage	-4°F ~ 185°F

*Product specs may change without notice

II. Warning

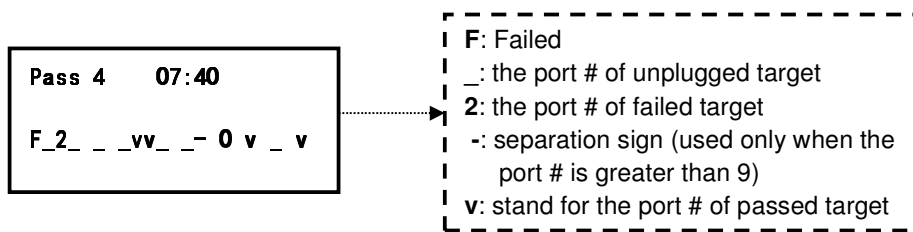
1. The duplicator tasks mentioned in this user's manual are as following: Copy, Compare, Copy + Compare, Capacity Check, and the functions under Utility sub menu, such as Format FAT32, Format exFAT, Quick Erase, Full Erase and DOD Erase.
2. The LCD display will show the status of each task during the process, and show the total number of targets by the end of task if all targets have passed the process. If any target failed the process of task, the LCD will display the status of each target by the end of task. If all targets failed the process of task, it will only display the error message.
3. Pressing and holding the **ESC** button during the execution process of a task will stop and exit the execution of the task.
4. DO NOT unplug HDD from the duplicator during the execution process of a task. It may cause damage to the duplicator system and HDD.
5. It is strongly recommended that the capacities of the source and target HDD are equal or similar.

III. Operation Overview

1. Insert source HDD into the source port and target HDD(s) into the target port(s) properly. The LCD display will show Source Not Ready when source HDD is not plugged in yet, and then show the number of target HDD(s)

inserted after source HDD is plugged in.

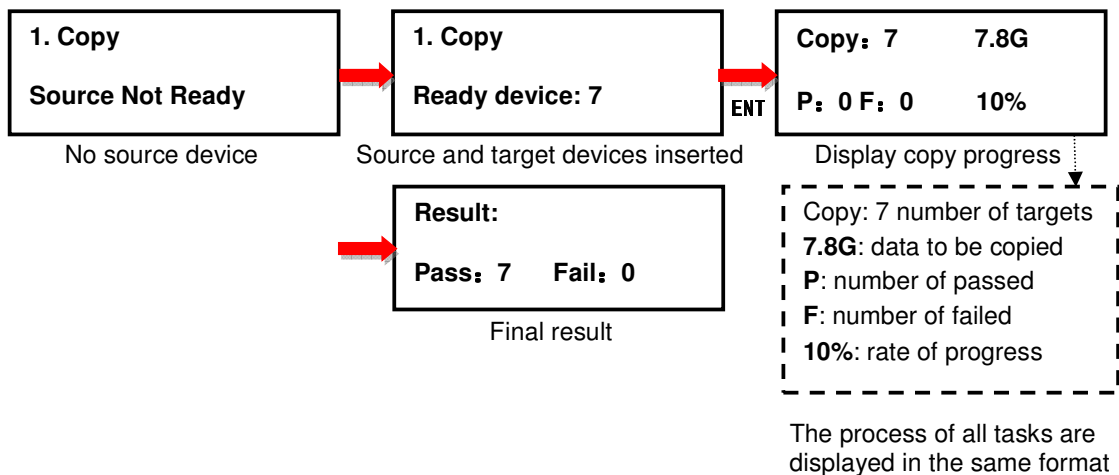
2. The number of Ready device is increased on the LCD display if the target HDD is plugged in properly.
3. Select the task from menu, and press **ENT** button to execute it.
4. During the execution process, the status of each target HDD can be checked by using the **▲** and **▼** buttons.
5. After the task is done, LCD display will show the number of successful and failed target(s), and execution time. Go to section **6.8 Show Result Time** to set up the display of time.
6. If any target failed the process of task, LCD display will show the following information (will only show error message when all targets failed).



IV. Menu Overview

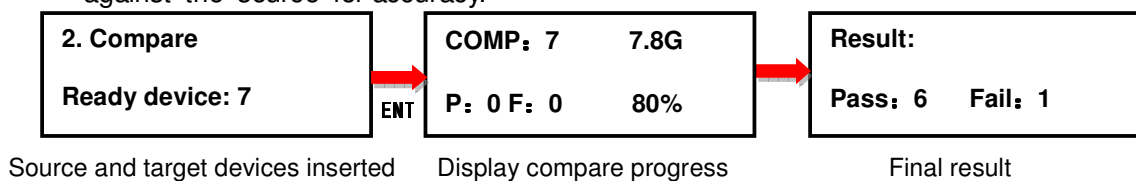
1. Copy:

To copy from source HDD to target HDD(s), please go to **6.1 Copy Area** to select the setting first before this step.



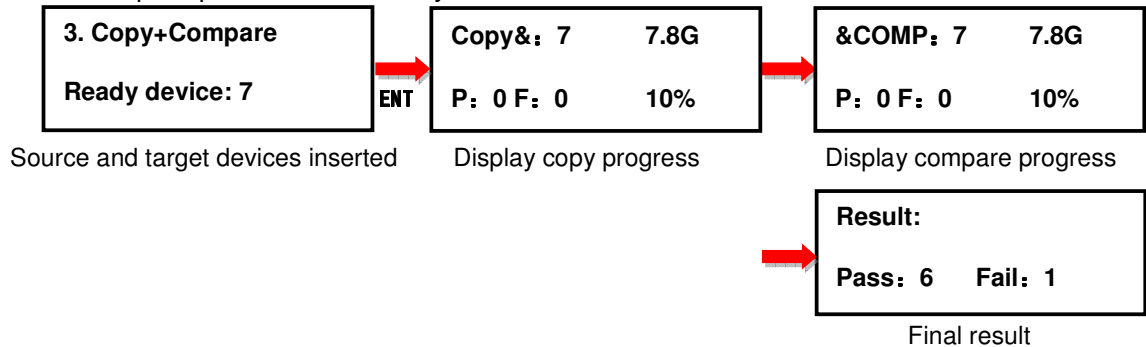
2. Compare:

This command allows the user to compare the copied target HDD devices against the source for accuracy.



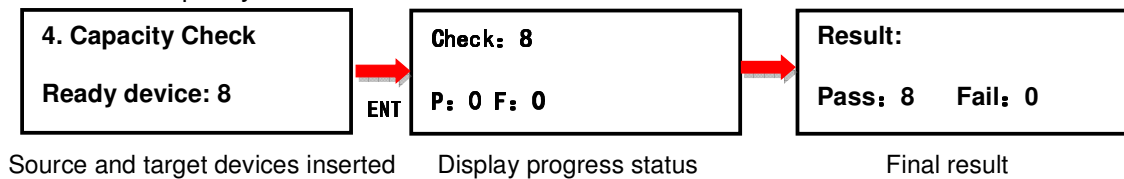
3. Copy + Compare

This command allows duplicator to start Copy process first and then follow with Compare process immediately.



4. Capacity Check

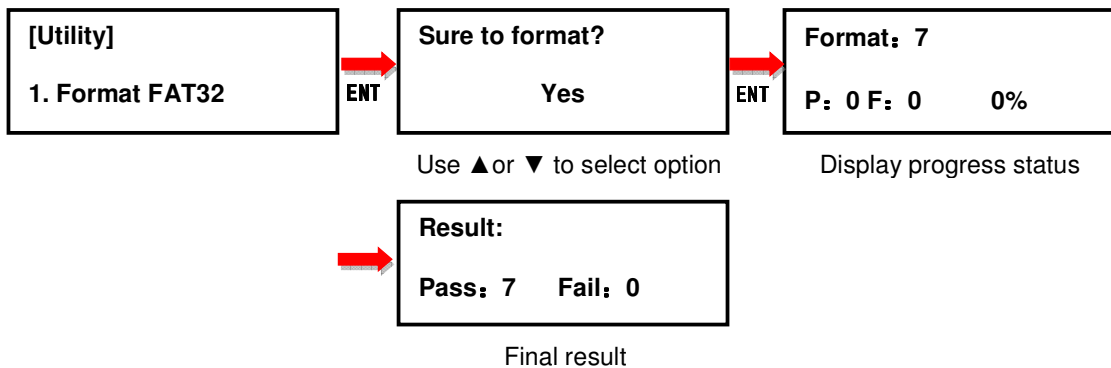
This command allows the user to verify the HDD device capacity. It can detect the actual capacity of devices within 3 seconds.



5. Utility

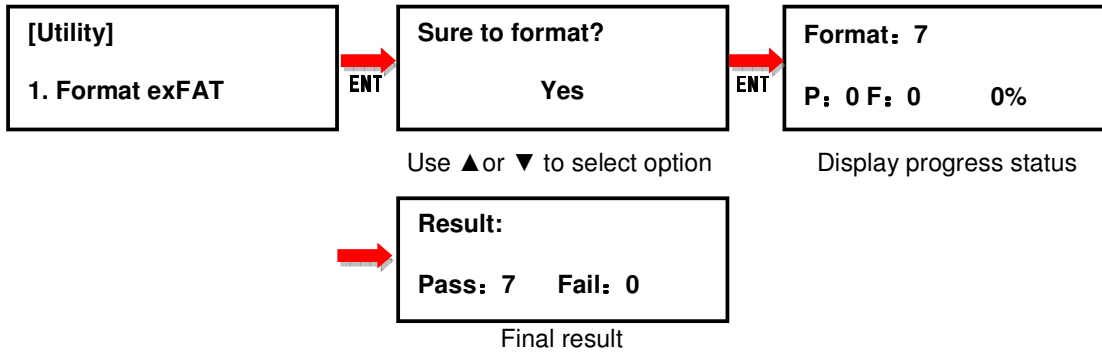
5.1 Format FAT32

This option allows the user to format the target device to FAT32 file format. It will not format the source device, avoiding accidentally erasing the original data content. User will be asked if it is sure to format the target devices before the Format process starts.



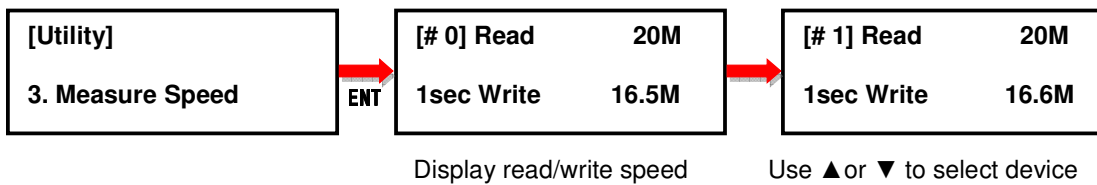
5.2 Format exFAT

This option allows the user to format the target device to exFAT file format. It will not format the source device, avoiding accidentally erasing the original data content. User will be asked if it is sure to format the target devices before the Format process starts.



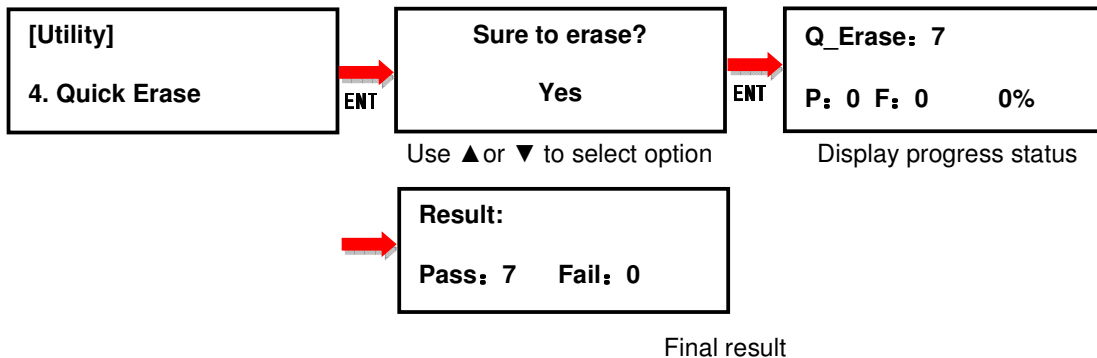
5.3 Measure Speed

This option allows the user to measure the actual Read and Write speed of the target device. This option will NOT alter or erase existing data on the target device.



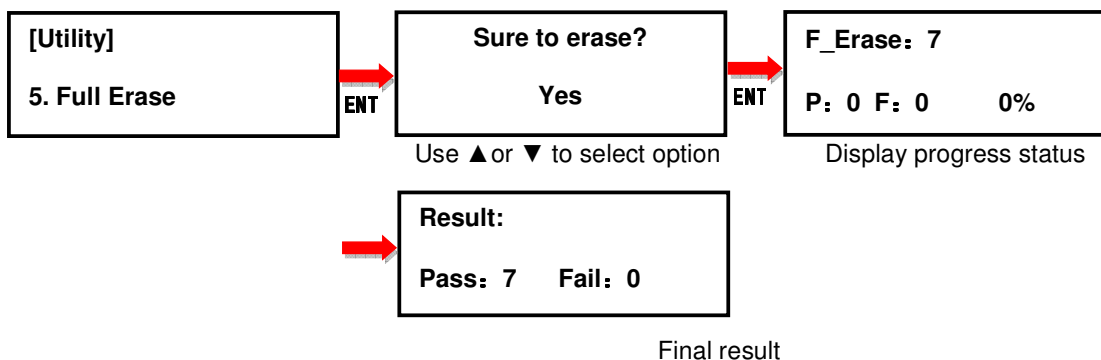
5.4 Quick Erase

This option erases the table of content of file system of the target device, so it is fast to do Quick Erase. There is a chance that some files can be retrieved by software.



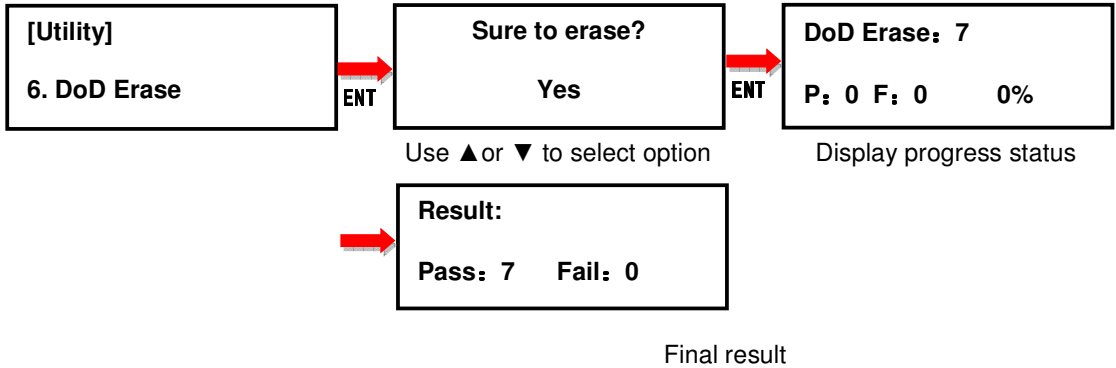
5.5 Full Erase

This option completely erases the content of target device. This process takes a longer time to erase and the content will not be retrieved by software.



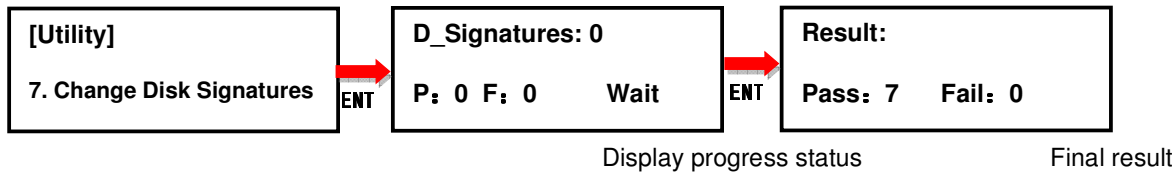
5.6 DoD Erase

This option complies with the U.S.A. Department of Defense (DoD 5220) standard to fully erase the HDD by rewriting bit by bit three times to guarantee the data to be permanently deleted. This process takes the longest time to erase, and the content will not be retrieved by software.



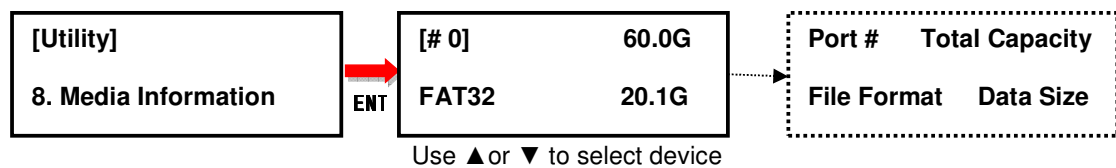
5.7 Change Disk Signatures

Duplicator generates the same disk signatures after copy which may cause computer unable to read the disk correctly when two disks with identical disk signatures are presented, or shut down the computer. This function allows to change disk signature. Attention: it will cause error (data mismatch) if compare the disks after execution of this function.



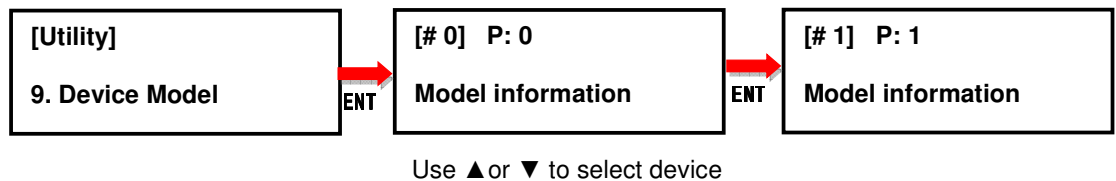
5.8 Media Information

This option displays the information of selected HDD device, such as total capacity, file format and the size of data content.



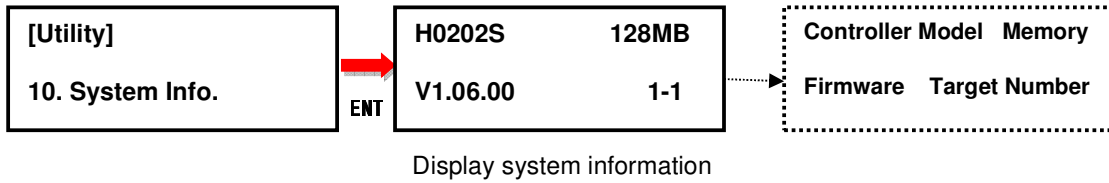
5.9 Device Model

This option displays the model information of selected HDD device, such as device model, serial information and firmware version



5.10 System Information

This option displays general information of the duplicator, including controller model, system memory size, firmware version and number of targets.



5.11 System Update

This option allows the user to update the firmware of duplicator when necessary. Please obtain the proper firmware file from manufacturer, and save the unzipped file under home folder on the HDD (DO NOT save the file under sub folder). Insert the HDD containing the firmware into the source port of duplicator, and press ENT under “11. System Update”. It will start to update the system. Once the update is completed, the duplicator will automatically reboot by itself.



6. Setup

6.1 Copy Area

This option allows the user to select the area on the source device to copy onto the target devices. You may select either “System And Files” to skip all the unoccupied area on the source device or “Whole Media”. By default, the copy area is set up as System And Files.

6.1.1 System And Files

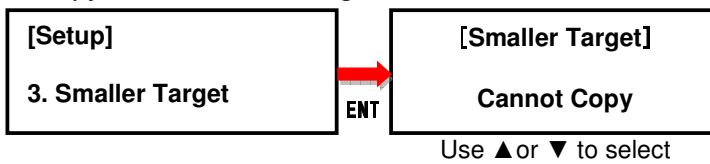
The duplicator first analyzes the file format of source HDD device. You may copy only the system and files area to save overall copy time if the file format is FAT16, FAT32, exFAT, NTFS (Windows), EXT2, EXT3, EXT4 (Linux), and HFS/HFS+ (Mac). Otherwise, the duplicator will copy the entire source device content to the target devices including unoccupied space. For instance, the source HDD has 2TB capacity but with only 50MB of data in FAT32 file format. The duplicator will copy only the 50MB of data area to the target HDD(s), hence shortening overall copy time.

6.1.2 Whole Media

When selected, the duplicator copies the entire content on the source HDD device, including both the data and empty spaces. This option is used when you have a source device with unknown file format. For instance a source HDD has 2TB capacity and 50MB of data with unknown file format, the duplicator will copy the whole 2TB of content to target HDD(s)

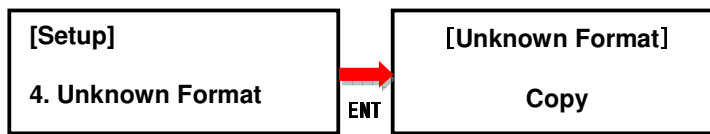
6.2 Smaller Target

If the capacity of the target HDD is smaller than the source HDD, the duplicator will partly copy or cannot copy. Cannot Copy is the default setting.



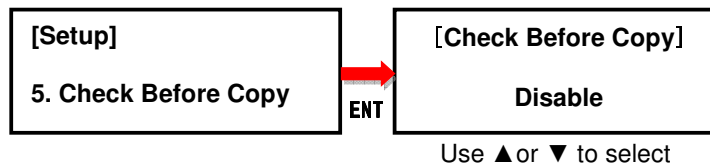
6.3 Unknown Format

This option allows you to Copy or Skip unknown format. If option Skip is selected here, the unknown format from source will not be copied during copy process. Copy unknown format is the default setting.



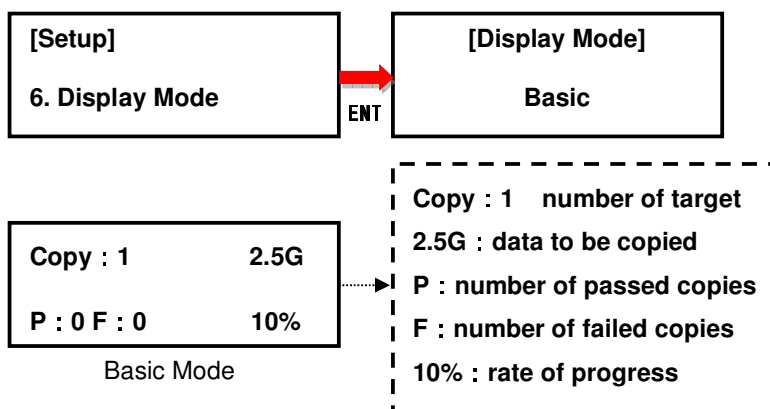
6.4 Check Before Copy

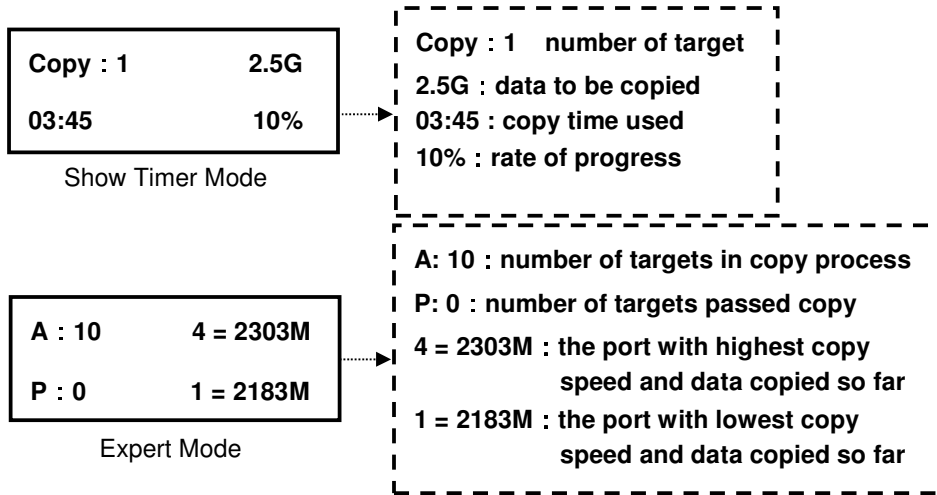
This option allows the user to check the device's real capacity before copying. By default this option is disabled.



6.5 Display Mode

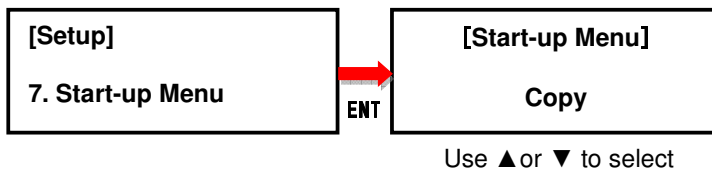
There are three display modes: Basic, Show Timer, and Expert. Basic Mode shows the copy progress in general; Show Timer Mode displays the time used for the task; Expert Mode shows the devices with highest copy speed and lowest copy speed and their copy progress respectively. By default it is Basic Mode.





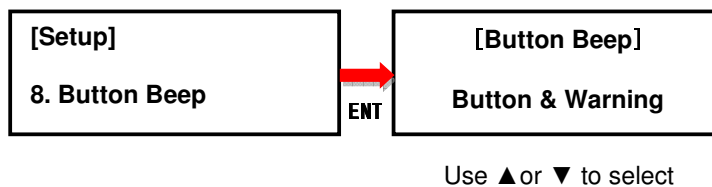
6.6 Start-up Menu

Choose one of the following as the default start-up function: Copy, Compare, Copy+Compare, Capacity Check, Utility and Setup. The default start-up function is Copy.



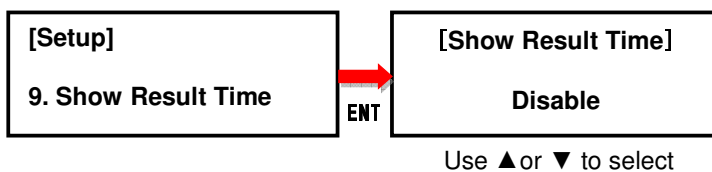
6.7 Button Beep

This option allows the user to set up button sound from the following options: Button & Warning, OFF, Warning only. The default setting is Button & Warning.



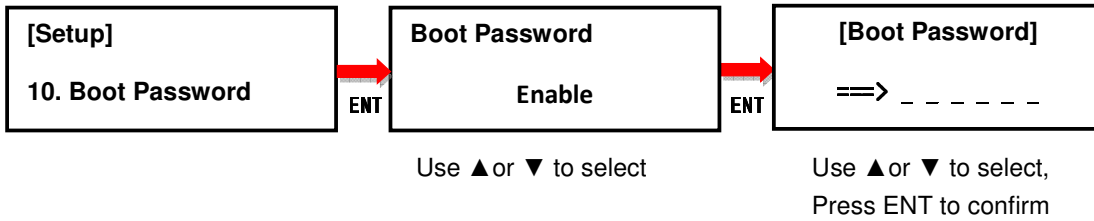
6.8 Show Result Time

This option allows the user to enable or disable the display of copy time after finishing the copy process. The default setting is Disable.



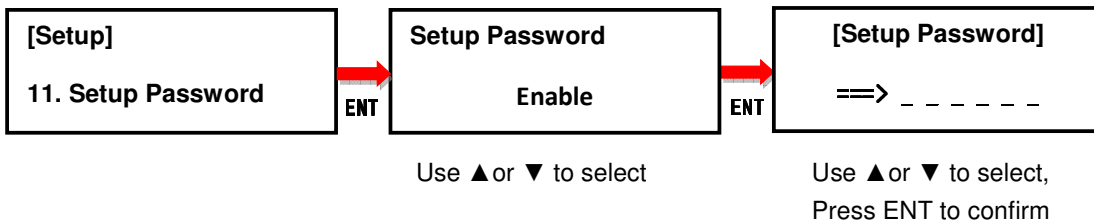
6.9 Boot Password

This option allows the user to set up a password for system boot up to prevent from the unauthorized use of the duplicator. The password must be 6 characters.



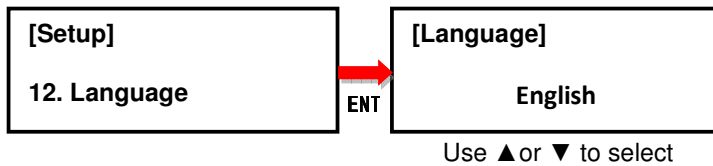
6.10 Setup Password

This option allows the user to set up a password for Setup function to prevent from the change of system settings on the duplicator. The password must be 6 characters.



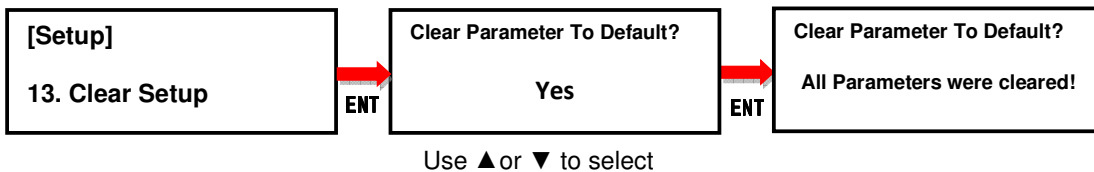
6.11 Language

This option allows the user to choose the language for display: English, Spanish, Portuguese, and Japanese. English is the default language.



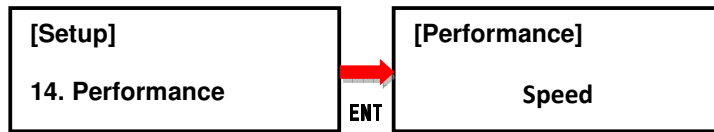
6.12 Clear Setup

This option resets the duplicator back to factory default settings.



6.13 Performance

This option allows the user to set up the performance for Copy function based on the following modes: Speed, Balance, and Compatibility. Speed mode is used to execute the Copy function at the fastest speed, but may have compatibility issue with certain brands of flash media. Balance mode is used to execute the Copy function at a stable speed, and has less compatibility issue with certain brands of flash media. Compatibility mode is used to execute the Copy function at the most stable speed, and almost has no compatibility issue with flash media. The default mode is Speed.



Use ▲ or ▼ to select