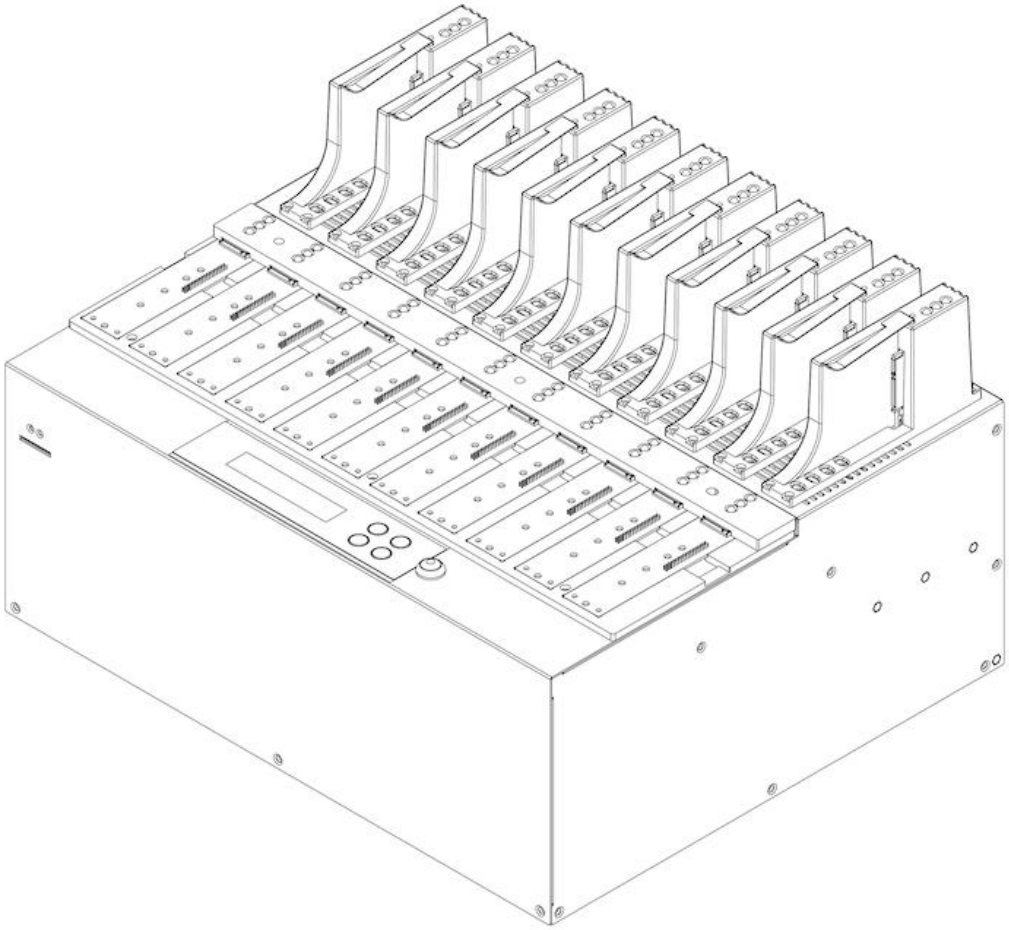
PCIe NVMe/SATA SSD Duplicator & Sanitizer HC Series User Manual



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v A.02.2

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Product Disclaimer

The manufacturer is not accountable for any incidental or consequential damages, which includes, but is not constrained to property harm, loss of time or data from use of our product, or any other damages attributable to product malfunction or failure (including without limitation, those attributable to: (1) reliance of the materials provided, (2) costs of product replacement, (3) loss of use, data or profits, (4) delays or business interruptions, (5) and any principle of legal responsibility, arising out of or in reference to the use or overall performance or from delays in servicing or lack of ability to render service) of any our product. The manufacturer makes every effort to ensure proper operation of all products. However, the customer is responsible to affirm that out of the product meets the customer's quality requirement. The customer further acknowledges that fallacious operation of our product and/or software program, or hardware issues, can cause loss of data, defective formatting, or data loading. The manufacturer will make efforts to resolve or repair any issues recognized by customer either within the warranty period or on a time and materials basis.

Warranty

The manufacturer provides a basic one-year parts and labor warranty for all of its products (excluding cables, adapters, and other consumable items). An optional extended warranty is also available for an added cost. Telephone and email support is available for the life of the product as defined by us.

All warranties will be restricted and defined by the market region from which customers purchased.

Piracy Statement

The manufacturer accepts no responsibility for copyright infringement or misuse of any our equipment. Copying all forms of data: audio, video, or software without the permission of the copyright holder is illegal. It is the sole responsibility of the user to ensure that the legal copyrights of the copyright owners are respected.

Before You Start

Important Notice

- Carefully read the entire manual before operating.
- Make sure the source device is correct and functioning.
- Equal capacity of source and target is recommended for guaranteed data consistency.
- Using the Copy +Compare function provides the most flawless duplication.
- Damage incurred due to non-compliance with our operating instructions will void the warranty.
- Store the equipment safely when not in use and keep out of the reach of children.
- Please turn off duplicator before replacing the socket.
- Never turn off the power while the firmware updating.
- Use only approved, stable power sources.
- The power supply has overload protection. When it is overloaded and shutdown, please unplug the power cord for 2 minutes for discharge.
- Use product only in a clean, dry, dust free, and ventilated area. Liquids or foreign debris can severely damage your duplicator.
- It is typical for the machine to heat up during operation.
- While in use, do not move the duplicator or remove HDDs.
- Static electricity may cause duplication error. Please pay attention to the duplicator's environment and while operating equipment. Purchasing electricity elimination equipment helps avoid shock.
- Devices will operate at high temperatures during selected tasks.
- Wear protective gloves to prevent burns when handling devices.
- Ensure machine and operator are properly grounded to prevent ESD.
- If you want to change your Log password, please keep your password in a safe place in case you lose it. Please understand that the manufacturer does not provide password reset service due to the consideration of personal privacy.

Notice Symbols

Special items, procedures, or notes to be observed prior to use.

Note	Refers to related duplicator operations, special details, tips, or suggestions for operational effectiveness.

Caution	Refers to procedures that need to be adhered to or precautions.

Functions Table

Functions	Descriptions	
1. Copy	**1.1 Source Port** Copies data from the device connected to the Source Port (Port #1).	
	1.2 Internal Storage *(Available when internal SSD is installed)* Copies saved data images from the duplicator's internal storage device.	
2. Compare	**2.1 Source Port** Verifies data, bit-by-bit, from the device connected to the Source Port (Port #1).	
	2.2 Internal Storage *(Available when internal SSD is installed)* Verifies saved data images, bit-by-bit, from the duplicator's internal storage device.	
3. Copy + Compare	**3.1 Source Port** Copies and verifies data, bit-by-bit, from the device connected to the Source Port or Port #1.	
	3.2 Internal Storage *(Available when internal SSD is installed)* Copies and verifies saved data images, bit-by-bit, from the duplicator's internal storage device.	
4. Erase	**4.1 Quick Erase** Erases device(s)' index table.	
	4.2 Full Erase Erases entire device(s) complying with NIST 800-88 Standards.	
	4.3 DoD Erase Erases device(s) complying with DoD 5220.22-M Standards.	
	4.4 DoD EraseComp Erase device(s) complying with DoD 5220.22-M Standards and verifies complete erasure.	
	4.5 Secure Erase Erases the non-loadable areas complying with NIST 800-88 Standards.	
5. Utility	**5.1 Device Info** Displays basic information such as device model, name, capacity, etc.	
	5.2 System Update	**5.2.1 Update BIOS** Updates system firmware through the SD port.

		5.2.2 Create BIOS Format Prepares by formatting the device to a 2GB FAT partition to accept firmware file.	
	5.3 System Info Displays system information such as controller, model number, software version, etc.		
	5.4 Calc. CRC64 Calculate the CRC64 value of the source device.		
66. Setup	**6.1 Start-up Menu** Sets default function to display after equipment initialization.		
	6.2 Copy Area	**6.2.1 System and Files** Copies data and skips empty space. Only supports standard formats.	
		6.2.2 All Partitions Copies or skips HPA, DCO, unknown partitions, modified formats, etc. defined by settings.	
		6.2.3 Whole Device Copies all source data, bit-by-bit.	
		6.2.4 Percentage (%) Sets percentage of source capacity to copy.	
		6.2.5 Deep Analysis Analyze the data location and then copy. It doesn't have format limitation.	
	6.3 Copy GPT Backup Area Disable this function to copy the GPT backup area.		
	6.4 Skip Bad Sectors Skips source bad sectors.		
	6.5 Language Sets preferred language: English or Japanese.		
	6.6 Advanced Setup	**6.6.1 Unknown Format**	**Copy Unknown** Copies unknown format(s).
			Skip Unknown Skips unknown format(s).
		6.6.2 Erase Master	**Disabled** Source port will be unable to erase.

			Enabled Source port will be able to erase.
		6.6.3 **Erase Pattern**	**One Byte** Random character written per byte.
			Big Random Data Random character written in a set of area.
		6.6.4 Skip Erase Errors Skips bad sectors during Erase.	
		6.6.5 Clear HPA at Erase	**Clear HPA Setting** Clears HPA setting during erase.
			Keep HPA Setting Keeps original HPA setting during erase.
		6.6.6 Wait HDD Time Sets device power up buffer time prior to copy, erase, etc.	
		6.6.7 Lock Key	**Disabled**
			Enabled Only down/up buttons are disabled. Reboot system for setting to be in effect.
		6.6.8 Stop Motor Time Sets device power down buffer time prior to device disconnection.	
		6.6.9 Boot Password Sets up the login password.	
		6.6.10 Delete Disk Signature After Copy	**No**
			Yes Do not copy the disk signature onto target devices.
	6.7 Restore Defaults Reinstates manufacturer settings.		
7. Log Manager	**7.1 Out Today Report** Outputs today's log data.		

<table>
<tr><td rowspan="7"></td><td colspan="2">7.2 Out Recent Report
Outputs recent log data.</td></tr>
<tr><td colspan="2">7.3 Out Period Date
Outputs a set period of log data.</td></tr>
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Default password: 123456</td><td>7.4.1 Clear All Logs
Clear all log records.</td></tr>
<tr><td>7.4.2 Setup Password
Allows password change.</td></tr>
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Change time and date.</td></tr>
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Creates watermark on the log report.</td></tr>
<tr><td rowspan="7">8. Image Management</td><td colspan="2">8.1 Copy SSD to Image
Uploads the source data onto internal SSD.</td></tr>
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Compares the source data with an image file stored in the internal SSD.</td></tr>
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To show info of Big Master target HDD.</td></tr>
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To show one Image files of Big Master target HDD.</td></tr>
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To rename one Image files of Big Master target HDD.</td></tr>
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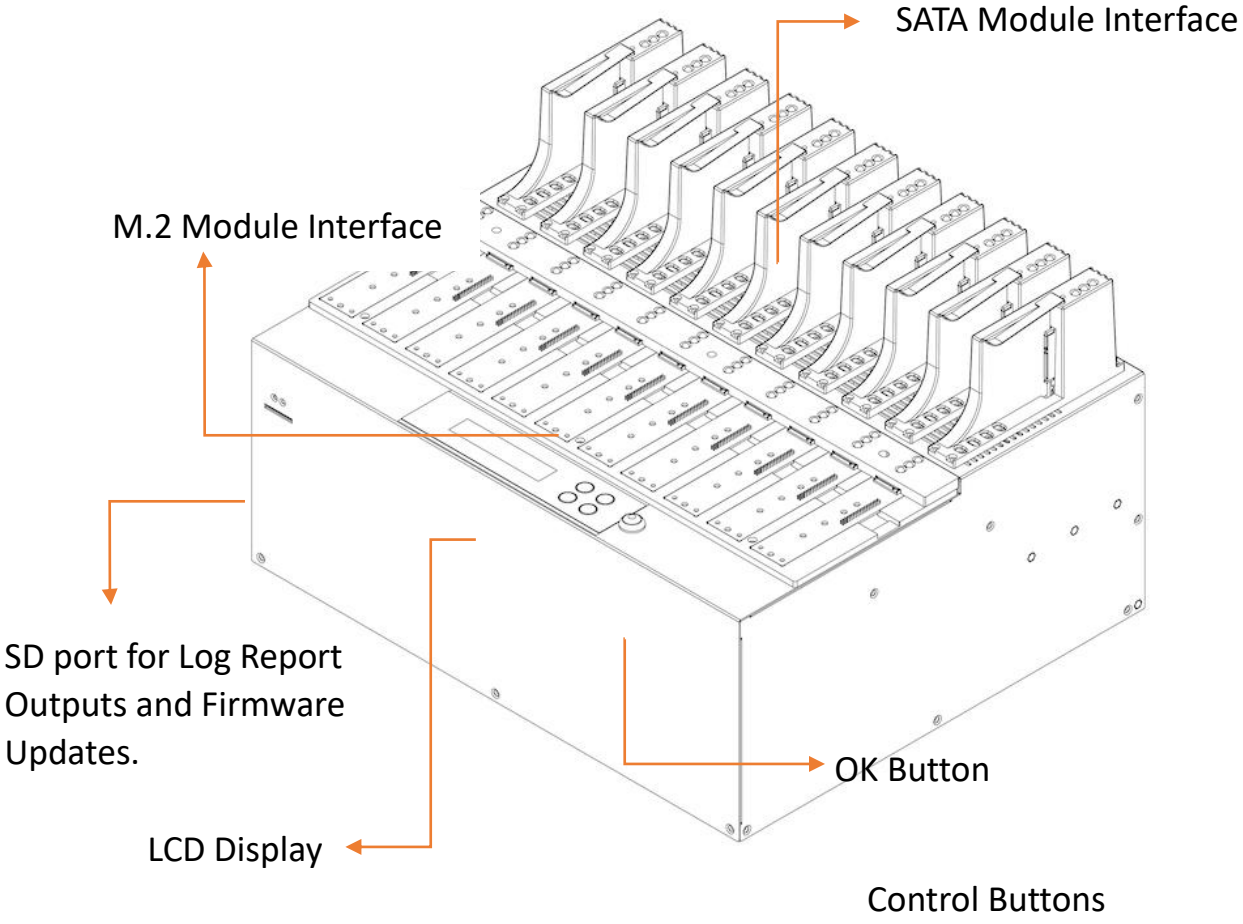
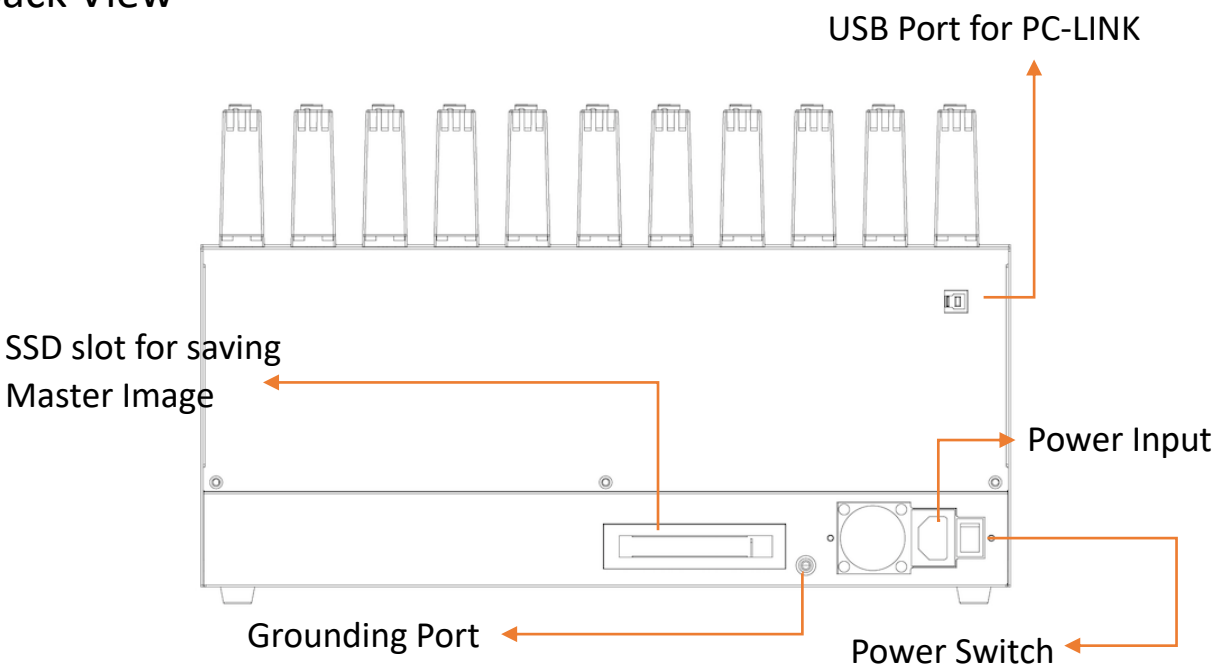
To delete one image files of Big Master target HDD.</td></tr>
<tr><td colspan="2">8.7 Format Image Tank
To format the target hard disk used for Big Master target HDD.</td></tr>
</table>

Product Overview

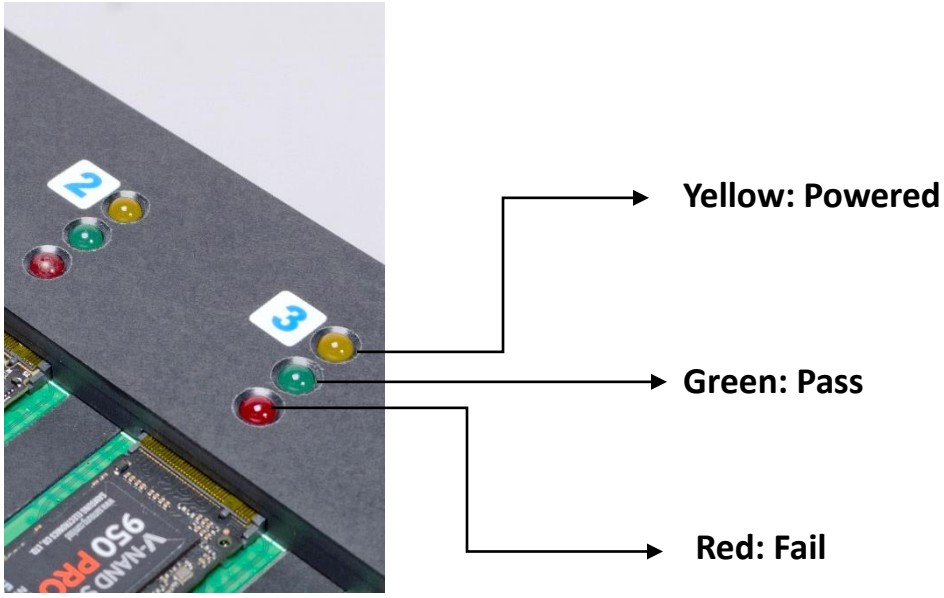
- Front View



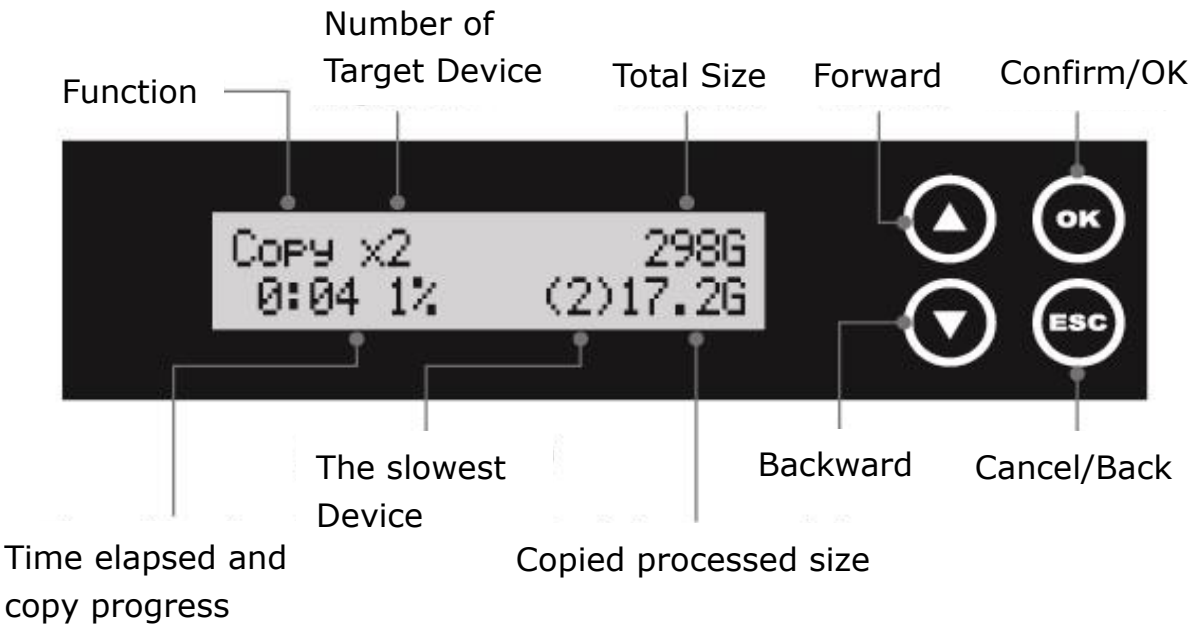
- Back View



- LED Status



- LCD Configuration



Functions

1. Copy

Step 1: Prepare source and target devices.

Note	Recommendation: Target device(s)' capacity must be equal to or larger than the source device capacity.

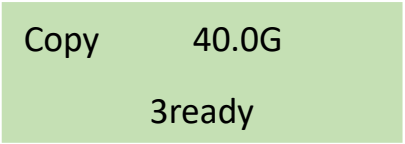
Step 2: Connect source and target devices.

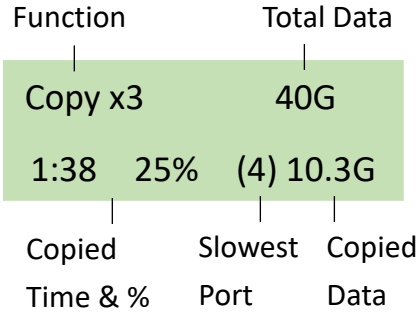
Step 3: Proceed to copy.

Scroll to select "1. Copy", then press "OK" to select which source to copy from. Scroll to select "1.1 Source Port" or select "1.2 Internal Storage", then press "OK" to start the duplication process.

Note	The number of working/connected targets will be displayed on LCD. Press "OK" to start.

The following information below states what is displayed on the LCD during duplication.





Note	Press ▲▼ together for 5 seconds to stop operation on the slowest device.

Step 4: Copy Completed!

The quantity of passed or failed target device(s) and the copied duration will be displayed on the LCD after duplication completes.

1.1 Source Port

Scroll to select "1. 1 Source Port", then press "OK" to copy to targets from the source port.

1.2 Internal Storage *(Available when internal SSD is installed)*

Scroll to select "1. 2 Internal Storage", then press "OK" to select which GOB Image to copy from the duplicator's built-in storage device. The GOB Image is created through ours's proprietary software that is included with the duplicator.

Caution	1. When "1.2 Internal Storage" is selected, the 1st port becomes a target port

	automatically (e.g. Duplicator will become 1-6 duplicator). Please use the duplicator carefully as the manufacturer will not held responsible for any data loss. 2. The GOB Image (internal storage) will not copy to smaller target capacities.

2. Compare

Scroll to select “2. Compare”, then press “OK” to select which source to verify from. Scroll to select “2.1 Source Port” or select “2.2 Internal Storage “, then press “OK” to start the verification process.

Note	The number of working/connected targets will be displayed on the LCD. Press “OK” to start.

2.1 Source Port
Scroll to select “2. 1 Source Port “, then press “OK” to verify targets from the source port.

2.2 Internal Storage *(Available when internal SSD is installed)*
Scroll to select “2. 2 Internal Storage “ , then press “OK” to select which GOB Image to verify from the duplicator’s built-in storage device. The GOB Image is created through ours’s proprietary software that is included with the duplicator.

3. Copy+Compare

Sequentially automates from Function 1, Copy to Function 2, then Compare.
Scroll to select “3. Copy+Compare”, then press “OK” to select which source to copy and verify from. Scroll to select “3.1 Source Port” or select “3.2 Internal Storage “, then press “OK” to start the automated duplication and verification process.

3.1 Source Port
Scroll to select “3. 1 Source Port”, then press “OK” to copy to and verify targets from the source port.
3.2 Internal Storage *(Available when internal SSD is installed)*
Scroll to select “3. 2 Internal Storage”, then press “OK” to select which GOB Image to copy and verify from the duplicator’s built-in storage device. The GOB Image is created through ours’s proprietary software that is included with the duplicator.

Caution	1. When “1.2 Internal Storage” is selected, the 1st port becomes a target port automatically (e.g., Duplicator will become 1-6 duplicator). Please use the duplicator carefully as the manufacturer will not held responsible for any data

	loss. 2. The GOB Image (internal storage) will not copy to smaller target capacities.

4. Erase

There are 5 submenu modes.

Caution	Please backup all important data before using this function.

Step 1: Connect device(s) for sanitizing.

Note	Source Port is disabled for erasing. Go to 6.6.2 to enable source port erasing.

Step 2: Enter function "4. Erase"
Scroll to select "4. Erase", then press "OK" to view the 5 submenus.

4.1 Quick Erase
This function will erase the index table from the connected device(s).
Scroll to select "4.1 Quick Erase", then press "OK" to start the erasing process.

4.2 Full Erase
This function will erase all data per NIST 800-88 Standards to the connected device(s).
Scroll to select "4.2 Full Erase", then press "OK" to start the erasing process.

4.3 DoD Erase
This function will erase all data per DoD 5220.22-M Standards of the connected device(s).
Scroll to select "4.3 DoD Erase", then press "OK" to start the erasing process.
4.4 DoD EraseComp
This function will erase all data per DoD 5220.22-M Standards, then verifies the erasure of the connected device(s).
Scroll to select "4.4 DoD EraseComp", then press "OK" to start the erasing and verification process.

4.5 Secure Erase
This function erases the non-loadable areas complying with NIST 800-88 Standards.
Scroll to select "4.5 Secure Erase ", then press "OK" to start the erasing process.

5. Utility

This menu will reveal submenus related to device information, system information and updates.
Scroll to select “5. Utility”, then press “OK” to view the submenus.

5.1 Show Disk Info

This function will display basic information such as device model, name, capacity, etc…
Scroll to select “5.1 Show Disk Info”, then press “OK” to view the connected device(s). Then through to view connected device(s) by port number order.

5.2 Update System

There are 2 submenu options.
5.2.1 Update BIOS
Step 1: Prepare a SD card for update.
Connect a SD card to PC. Download the latest firmware provided from our technical support, unzip the BIOS firmware, and save it to the root directory in the SD card.

Note	The SD’s format must be: FAT16 or FAT32.

Step 2: Proceed to update firmware
Connect SD card to the SD port in front of the duplicator. Scroll to select “5.2.1 Update BIOS”, then press “OK” to start the firmware update process.

Caution	The firmware update process may take longer than 5 minutes. Please do not disrupt power or process during BIOS update. If interrupted, the system will become useless. We will not be held responsible for any damages.

5.2.2 Create BIOS Format
Step 1: Connect a device to the source port.
Step 2: Scroll to select “5.2.2 Create BIOS Format”, then press “OK” to start the format process.
This will format the device to a 2 GB FAT32 Partition.

Note	Ensure that the device does not have any bad sectors.

5.3 System Info

This function will display basic information such as device model, name, capacity, etc…
Scroll to select “5.3 System Info”, then press “OK” to view the connected device(s). Then

scroll through to view all information.

5.4 Calc. CRC64

This function will count the CRC64 value for the source port. The CRC64 value is an easy way to double check the source data is correct.

Caution	User is responsible for verification of targets' quality. Testing a few completed targets in a mass production environment for quality control is recommended.

6. Setup

This menu will reveal submenus related to device information, system information and updates.
Scroll to select "6. Utility", then press "OK" to view the submenus.

6.1 Start-up Menu

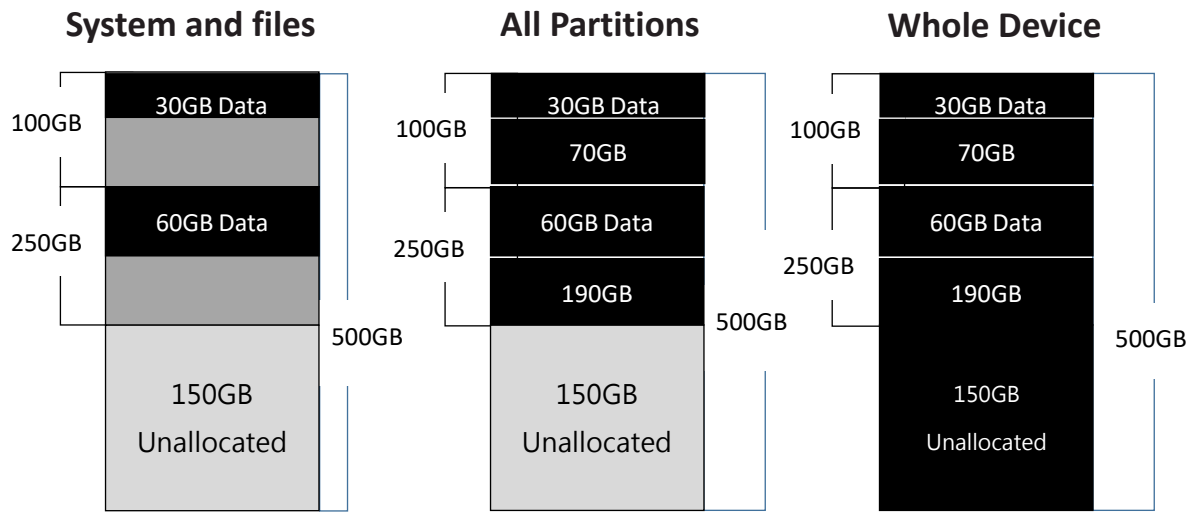
This function allows user to select the default function to display after equipment initialization.
Scroll to select "6.1 Start-up Menu", then press "OK." Next, scroll through the available menus for startup.

6.2 Copy Area

There are 5 submenu modes.
Scroll to select "6.2 Copy Area", then press "OK." Then scroll through to select one of the four copy methods.

- Selecting the Proper Copy Modes

Example: There are two defined partitions in a 500GB device. The charts below illustrate what portion would be duplicated.



This function will analyze and copy only data and skip empty spaces.

This function will copy all data within the defined partitions.

This function will copy the entire device.

- Copy and Compare Preparations

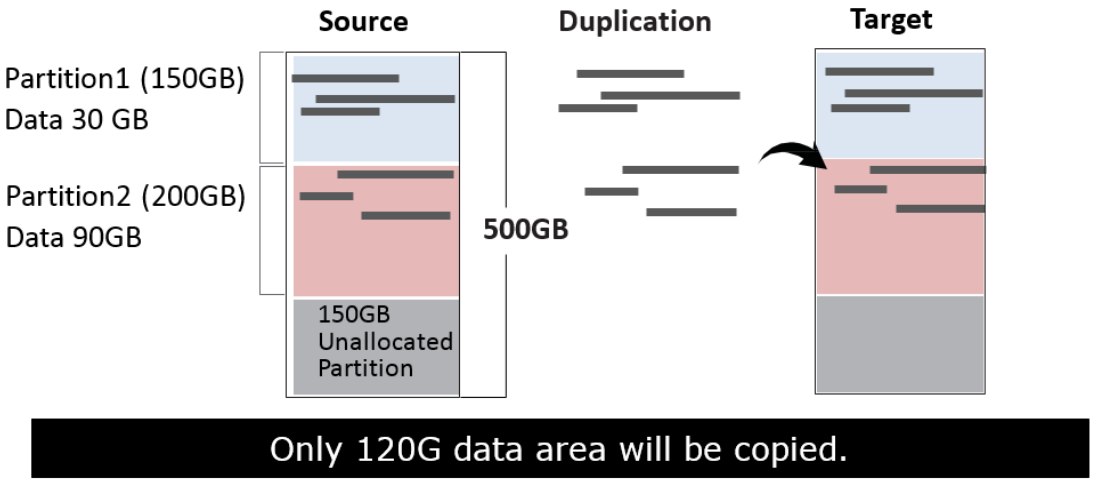
Please consider the following settings before proceeding with copy:
- 6.2 Copy Area
- 6.4 Skip Bad Sectors

Using appropriate copy modes can greatly reduce operation time and increase efficiency. There are four copy modes with different copy methods.

6.2.1 System and Files

Copies data and skips empty space. Only supports standard formats.
Scroll to select “6.2.1 System and Files”, then press “OK” to save the copy method.

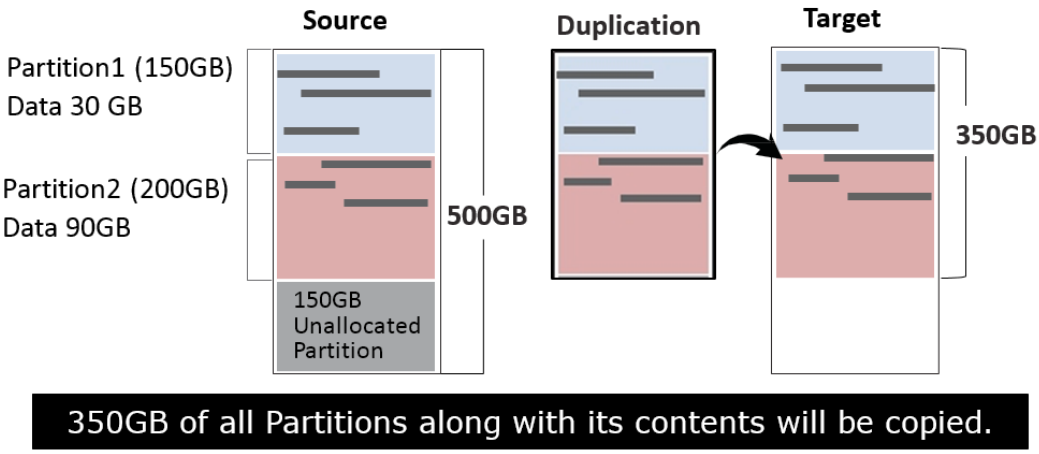
Allows user to copy source device’s System and Files, instead of the entire device. The system will analyze the source device and identify the data area to copy. If the source device’s data is within the target device’s capacity, the copy will be processed. FAT16/32/64, NTFS, EXT2/EXT3/EXT4/LVM, and HFS/HFS+/HFSX are supported in this copy mode.



6.2.2 All Partitions

Copy or skip HPA, DCO, unknown partitions, modified formats, etc. defined by settings.
Scroll to select “6.2.2 All Partitions”, then press “OK” to save the copy method.

The target device’s capacity must be equal to or larger than the source device’s capacity.

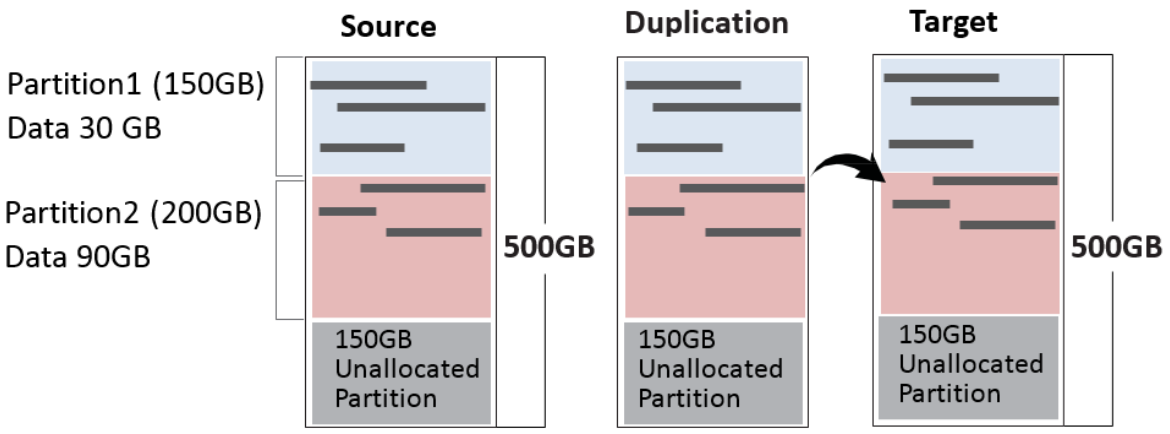


6.2.3 Whole Device

Copies all source data, bit-by-bit.

Scroll to select “6.2.3 Whole Device”, then press “OK” to save the copy method.

Copies the whole source device, irrespective of content, format, partition, or empty space. This mode does not analyze the data.

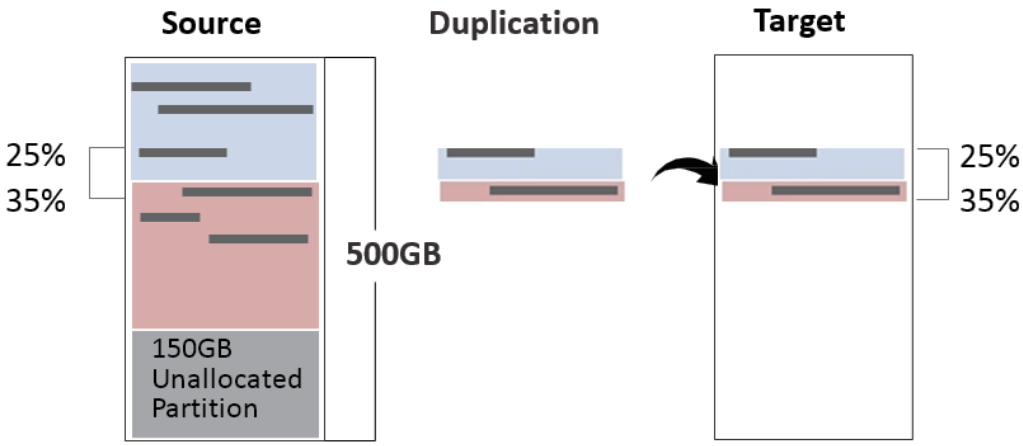


All 500GB of data will be copied.

6.2.4 Percentage (%)

Select percentage of source capacity to copy.

Scroll to select “6.2.4 Percentage”, then press “OK” to save the copy method.



Only copies the selected area.

6.2.5 Deep Analysis

This copy mode is designed to handle special format devices. It analyzes the whole device and then copies the data area. The target device is required to be wholly cleaned prior to copy.

Scroll to select “6.2 Copy Area > Deep Analysis”, then press “OK” to save the copy method.

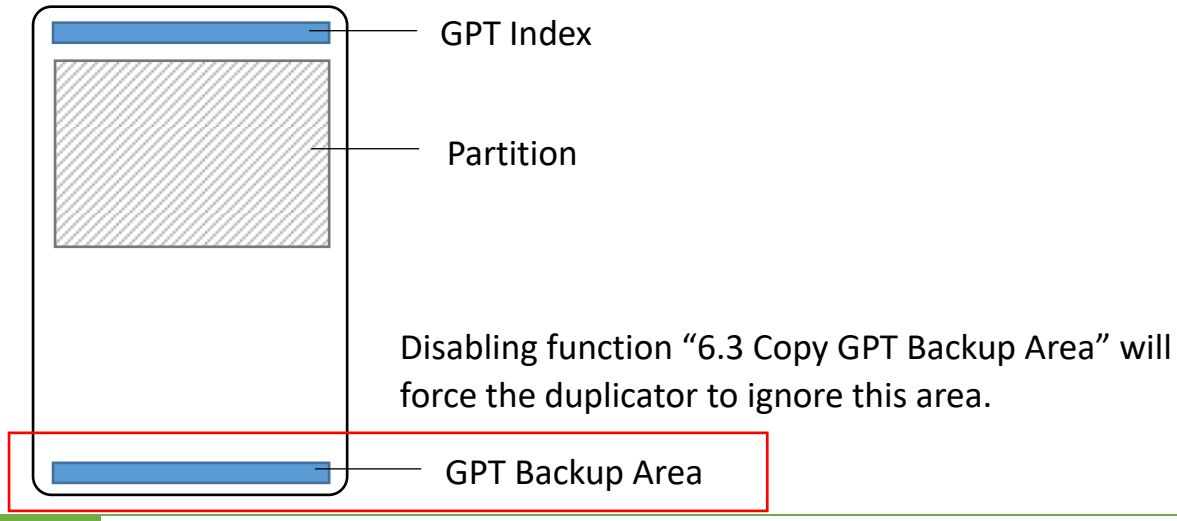
Note	1. “Deep Analysis” copy mode needs to take time to analyze the whole device capacity prior to copying. 2. “Deep Analysis” is recommended for use with “8.1 Copy SSD to Image.”

Caution	1. Use a clean source device to make the analyzed data capacity shorter. (Clean Source Device means no garbage data in the source device.) 2. The target device must be new or wholly cleaned prior to copy. Otherwise, there is risk for data combination.

6.3 Copy GPT Backup Area

Enabling this function makes the duplicator ignore the GPT backup area, and thus allows the duplicator to copy from a big capacity device to a small capacity device(s).

Note	The partition size of the source HDD should be smaller than target capacity. Otherwise, it is recommended to leave the GPT backup area intact.



Caution	GPT backup areas will be rebuilt automatically the next time Windows reboots. For Linux, tools such as gdisk can rebuild these backups.

6.4 Skip Bad Sectors

Skip source bad sectors during Copy/Compare.

Scroll to select “6.4 Skip Bad Sectors”, then press “OK” to scroll through the available values for skipping bad sectors. If the device data is critical and needs to be a full clone, it is recommended to set “Skip Bad Sectors” at “0.” Bad sectors can be set as unlimited or at a value from 0 to 65,535.

[Skip Bad Sectors]
1000

Caution	The “Copy+Compare” function is advised for enhanced copy accuracy.

6.5 Language

Select English or Japanese.
Scroll to select “6.5 Language”, then press “OK.” Then scroll through select the desired language.

6.6 Advanced Setup

This function contains settings to fine tune copy and erase functions.
Scroll to select “6.6 Advanced Setup”, then press “OK” to view the submenus.

6.6.1 Unknown Format

This function only works with copy functions: “6.2.1 System and Files” and “6.2.2 All Partition”.
Scroll to select “6.6.1 Unknown”, then press “OK”. Then scroll through to select one of two settings.

Unknown format includes all forms of modified and proprietary data and partitions.

■ Copy Unknown

Copy unknown format(s).
Scroll to select “Copy Unknown”, then press “OK” to save this setting.

■ Skip Unknown

Skip unknown format(s).
Scroll to select “Skip Unknown”, then press “OK” to save this setting.

6.6.2 Erase Master

This function allows user to enable or disable the source port for sanitization.
Scroll to select “6.6.2 Erase Source Port”, then press “OK.” Then scroll through to select one of two settings.

■ Disabled

Source port will not be allowed to erase.
Scroll to select “Disabled”, then press “OK” to save this setting.

■ Enabled

Source port will be allowed to erase.
Scroll to select “Enabled”, then press “OK” to save this setting.

6.6.3 Erase Pattern
Scroll to select “6.4.3 Erase Pattern”, then press “OK”. Then scroll through to select one of two settings.

- One Byte

Random character written per byte.
Scroll to select “One Byte”, then press “OK” to save this setting.

- Big Random Data

Random character written in a set of area.
Scroll to select “Big Random Data”, then press “OK” to save this setting.

6.6.4 Skip Erase Errors
Skip source bad sectors during Erase. Bad sectors can be set as unlimited or at a value from 0 to 65,535.

Scroll to select “6.6.4 Skip Erase Errors”, and press “OK” to scroll through the available values for skipping bad sectors.

6.6.5 Clear HPA at ERASE
Sets to clear HPA setting during erase.
Scroll to select "6.6.5 Clear HPA at Erase”, then press "OK" to save this setting.

- Clear HPA Setting

Clears HPA setting and data during erase.
Scroll to select "Clear HPA at Erase >> Clear HPA Setting”, then press "OK" to save this setting.

- Keep HPA Setting

Keeps original HPA setting and data during erase.
Scroll to select "Clear HPA at Erase >> Keep HPA Setting”, then press "OK" to save this setting.

6.6.6 Wait HDD Time
Set device power up buffer time prior to copy, erase, etc…
Scroll to select “6.6.6 Wait HDD Time, then press “OK” to set buffer time.

6.6.7 Lock Key
This function allows user to enable or disable the 4 control panel buttons.
Scroll to select “6.6.7 Lock Key”, then press “OK” to access available settings.

- Disabled

Scroll to select “Disabled”, then press “OK” to save this setting.

- Enabled

Only down/up buttons are disabled. Reboot system for setting to be in effect.
Scroll to select “Enabled”, then press “OK” to save this setting.

6.6.8 Stop Motor Time
Set device power down buffer time prior to device disconnection.
Scroll to select “6.6.8 Stop Motor Time”, then press “OK” to set buffer time.

6.6.9 Boot Password
Sets up the login password for system.

- Disabled
  No need password to start-up the system.
- Enabled
  Requires the password to start-up the system.

Caution	The system must be sent back for reset if the password is forgotten.

6.6.10 Delete Disk Signature After Copy
Set at “Yes” means do not copy the disk signature part.
This function is for Windows only. Windows will only recognize one device if you connect two or more with the same disk signature.

Caution	“Compare” function will always Fail if “6.6.10 Delete Disk Signature After Copy” is set at “Yes.”

6.7 Restore Defaults
Restores all setting to manufacture defaults.
Scroll to select “6.5 Restore Defaults”, then press “OK” to restore settings back to manufacture defaults.

7. Log Manager

This menu allows user to access several submenus.
Scroll to select "7. Log Manager", then press "OK" access submenus.

I. Log Report Diagram

```
Print Date     : 2017-03-17 11:04:20
Nickname       : C88958
Machine Model  : PCIe Duplicator (PE5212PCIe)
Machine Version : 2.38.2
Machine ID     : 52121.13389.51274.32496.23552(344DC84A7EF05C00)
Start No. Date : 2017-03-10
End No. Date : 2017-03-17
```

Background information of this log report

```
==========================================================================================

Job: COPY+COMPARE

  Time  Start: 2017-03-10 15:34:47
        End: 2017-03-10 15:35:44

  Source HDD Model : SAMSUNG MZVLV128HCGR-00000
                Version : BXV7000Q
  Serial Number : S2J4NXAH102201
  Capacity : 119.2GB(250069680 sectors)

  Data Size : 6231.3MB(12761824 sectors)
  copy Area : System and Files

  Quantity  Total: 5
            Pass: 5
            Fail: 0

  [Pass Record]
        Port:02,  2016-02-24 13:12:24 (  221 seconds)[HGST HTS725050A7E630][GH20A420]
        Port:03,  2016-02-24 13:12:24 (  221 seconds)[HGST HTS725050A7E630][GH20A420]
        Port:04,  2016-02-24 13:12:24 (  220 seconds)[HGST HTS725050A7E630][GH20A420]

[TF0500WE0083GV      ] 465.7GB(976773168) [Write Speed=113.6MB/second] [power_on_hours=95, power_cycle=1387]
[TF0500WE007XZV      ] 465.7GB(976773168) [Write Speed=113.6MB/second]
[TF0501WE01PM5Z      ] 465.7GB(976773168) [Write Speed=114.1MB/second] [power_on_hours=140, power_cycle=2614]
```

Source device Info.

Original Source Record

Result

Date Time Lapsed Time Model No. Revision

Port

S/N Capacity (Sectors) Write Speed Power-on Hours Power Cycle

II. How to Export Log Reports

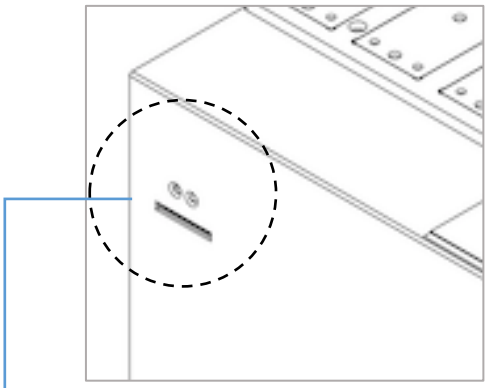
The Log Report Management Tool assists users with monitoring, recording and managing the entire duplication process. By displaying detailed information for each port, this tool helps to identify the slowest writing device, that in turn, keeps the operation running efficiently.

Note	1. The SD must be FAT16/FAT32 format. 2. The LCD will display the number of recorded logs. (E.g. #1-#6 means there are 6 logs.)

❶ Out Today Report
Export today's log report to SD card.

❷ Out Recent Report
Exports a recent log report (1-28 days) to SD card.

❸ Out Period Date
Exports a specific time period's log report to SD card.



SD port for Log Report Outputs and Firmware Updates.

7.1 Out Today Report

Outputs current day log report
Scroll to select "7.1 Out Today Report", then press "OK" to output log report to a SD card.

7.2 Out Recent Report

Outputs recent log report
Scroll to select "7.2 Out Recent Report", then press "OK" to output log report to a SD card.

7.3 Out Period Date

Outputs recent log report
Scroll to select "7.3 Out Period Date", then press "OK" to output log report to a SD card.

7.4 Advanced Function

This menu allows user to access several submenus.
Scroll to select "7.4 Advanced Function", then press "OK" access submenus.
Default password: 123456

7.4.1 Clear All Logs

Clear all log records.
Scroll to select "7.4.1 Clear All logs", then press "OK" to clear all log records.

7.4.2 Setup Password

Allows password change.
Scroll to select "7.4.2 Password Setup", then press "OK" to change to desired password.

Note	If you want to change your Log password, please keep your password in a safe place in case you lose it. Please understand that the manufacturer does not

	provide password reset service due to the consideration of personal privacy.

7.4.3 Adjust Clock

Change time and date.
Scroll to select "7.4.3 Adjust Time/Date", then press "OK" to adjust the time and date.

7.4.4 Add Watermark to text File

Creates a watermark on the log report. The log report can be checked by software (iSecuLog.exe) to prevent modifying.

Note	Contact our technical team for details.

8. Image Manager

This function allows user to mange the image files stored in the internal SSD.

8.1 Copy SSD to Image

Upload the source data into the internal SSD as an image file.

8.2 Compare SSD with Image

Compare the source data with an image file in the internal SSD.

8.3 Show Image Tank

Display the information for internal SSD.

8.4 Show One Image

Select and display the information for an image file.

8.5 Rename One Image

Select and rename an image file.

8.6 Delete One Image

Select and delete an image file.

8.7 Format Image Tank

Format the internal SSD.

Caution	This function will delete the data in the internal SSD.

Image Management

Users can easily create a GOB image on PC, upload it to the machine and do duplication.

1. Software Introduction

1.1 Connect the PC Link USB drive/disc on PC, it will show two folders.

- PCIe Software: The installation software is stored in this folder. Please copy the folder from PC Link USB drive/disc to PC.
- Usermanual: The user guide is stored in this folder.

1.2 Double click PCIe Software, it will show three folders.

- Driver: The PC needs to install the driver first in order to install other software.
- GOB Compiler: Used for creating GOB Image.
- PCIE-Upload Image: Used for uploading the GOB Image to PCIE duplicator.

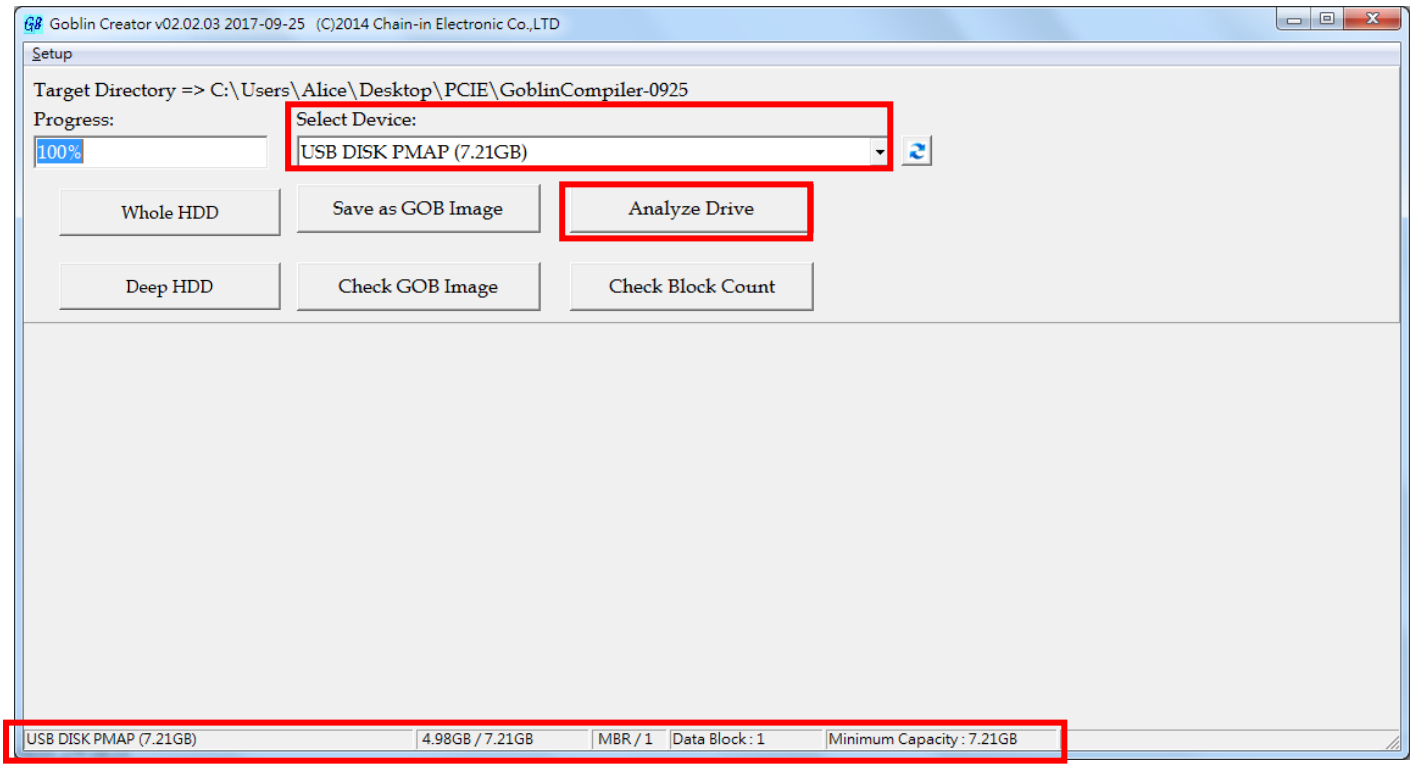
1.3 Double click to install the driver.

2. Creating a GOB Image

2.1 Connect a source drive to PC.

2.2 Double click GOB Compiler and execute “GOB Complier application”.

2.3 Select the source device, and then click "Analyze Drive," it will display data details at the bottom.



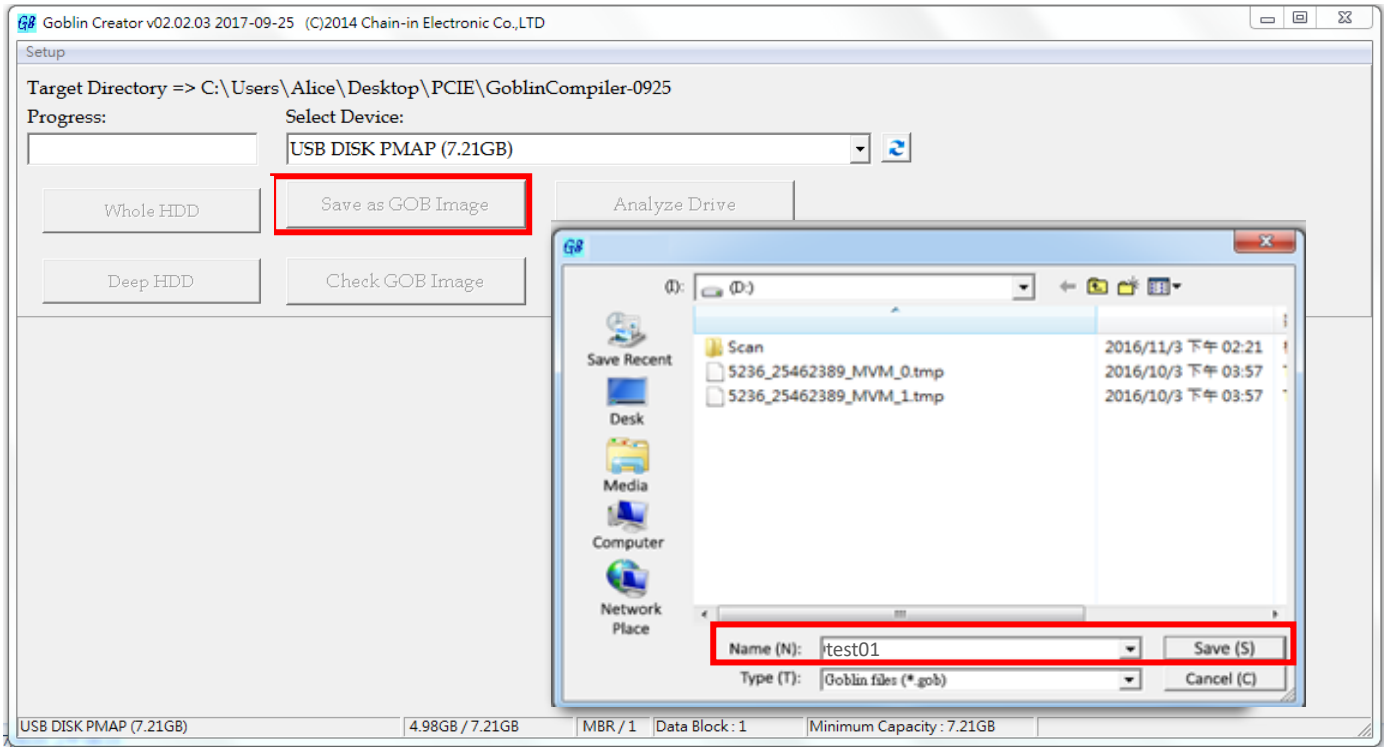
Note	If the device has not been detected in the list, please click “renew button” in the right.

Caution	Please note the GOB Image file will not copy to smaller target capacities than the original source drive capacity.

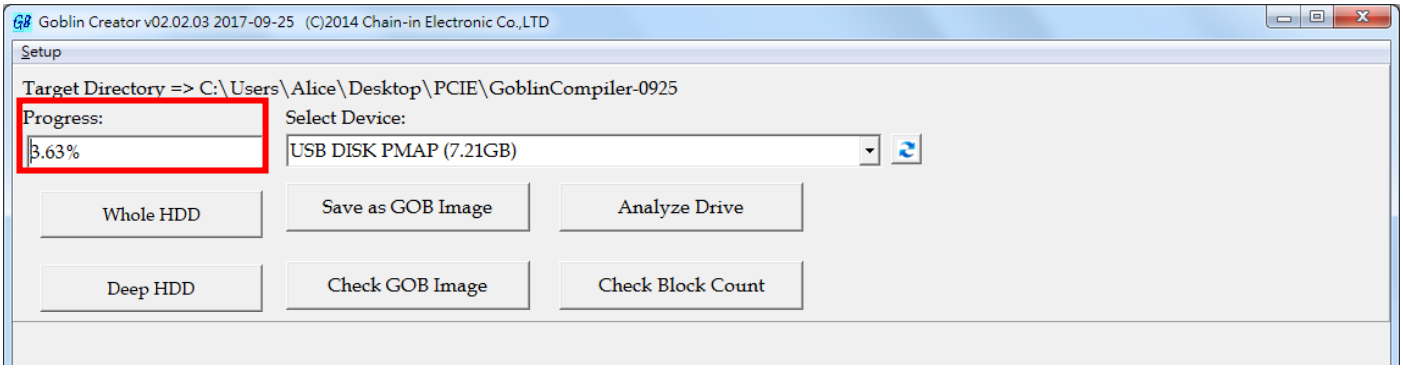
2.4 There are 3 modes for making GOB image files, System and Files, Whole Device, and Depth Profiling Analysis.

❶ System and Files:

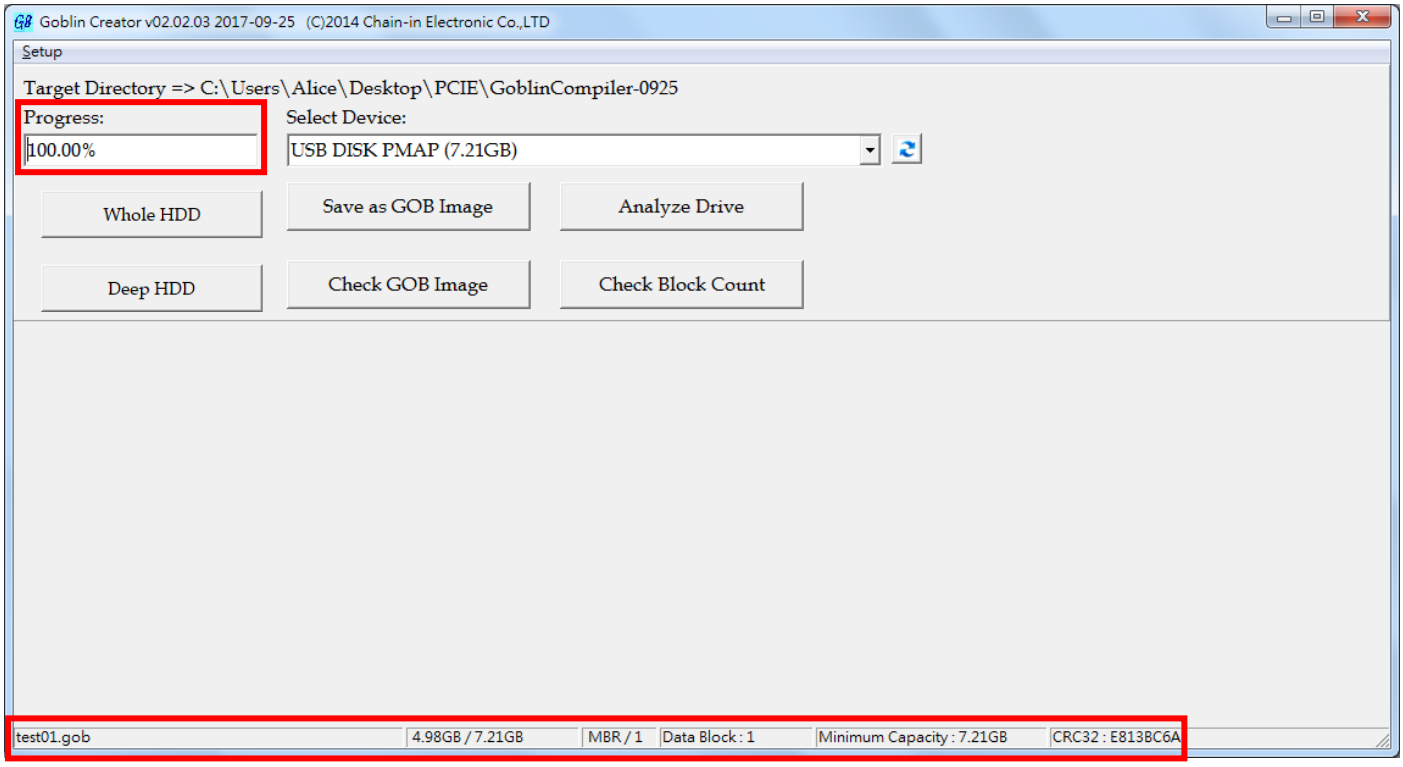
a. Click "Save as GOB Image," named the image and click "Save." The GOB file will be created.



b. During compiling process, the percentage of production is shown in the "Progress".

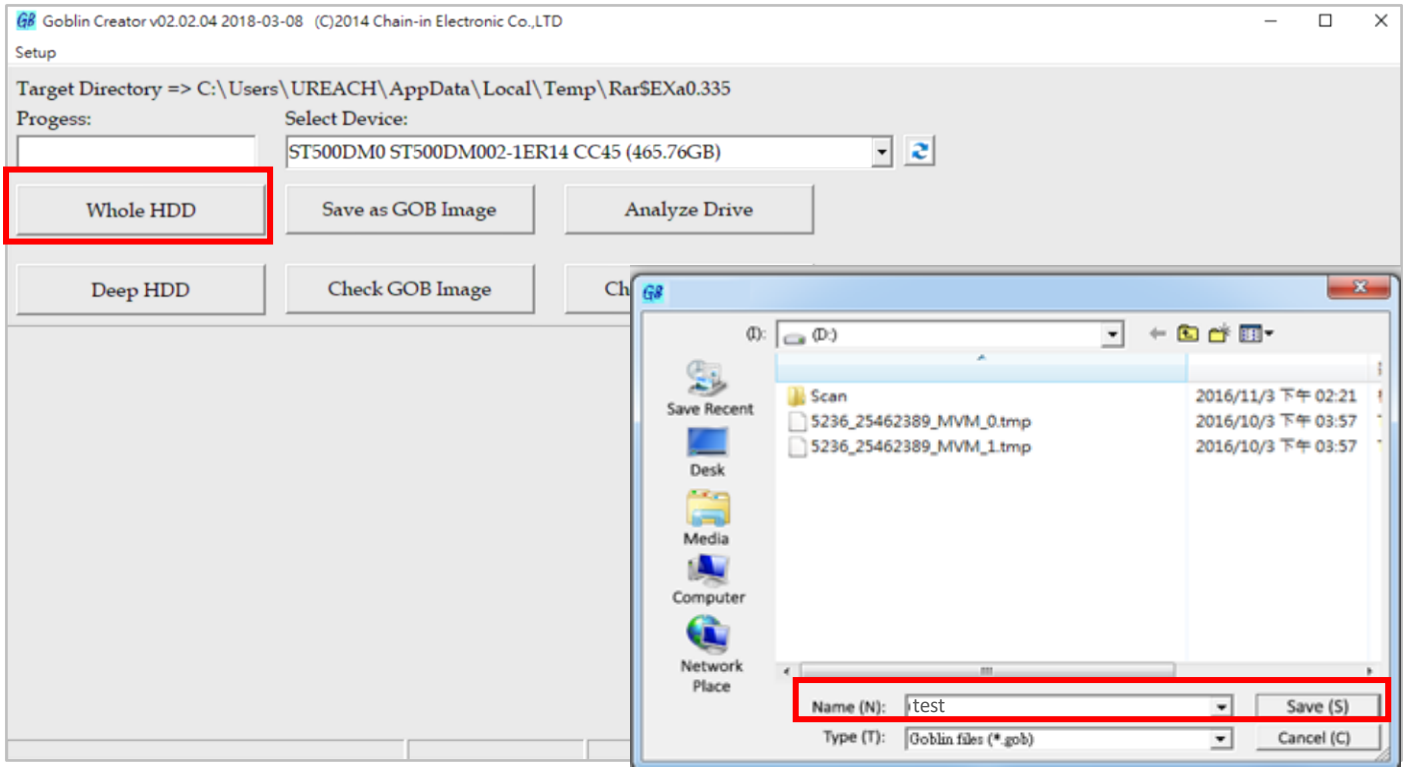


c. After completion, the detail of image information will display at the bottom.

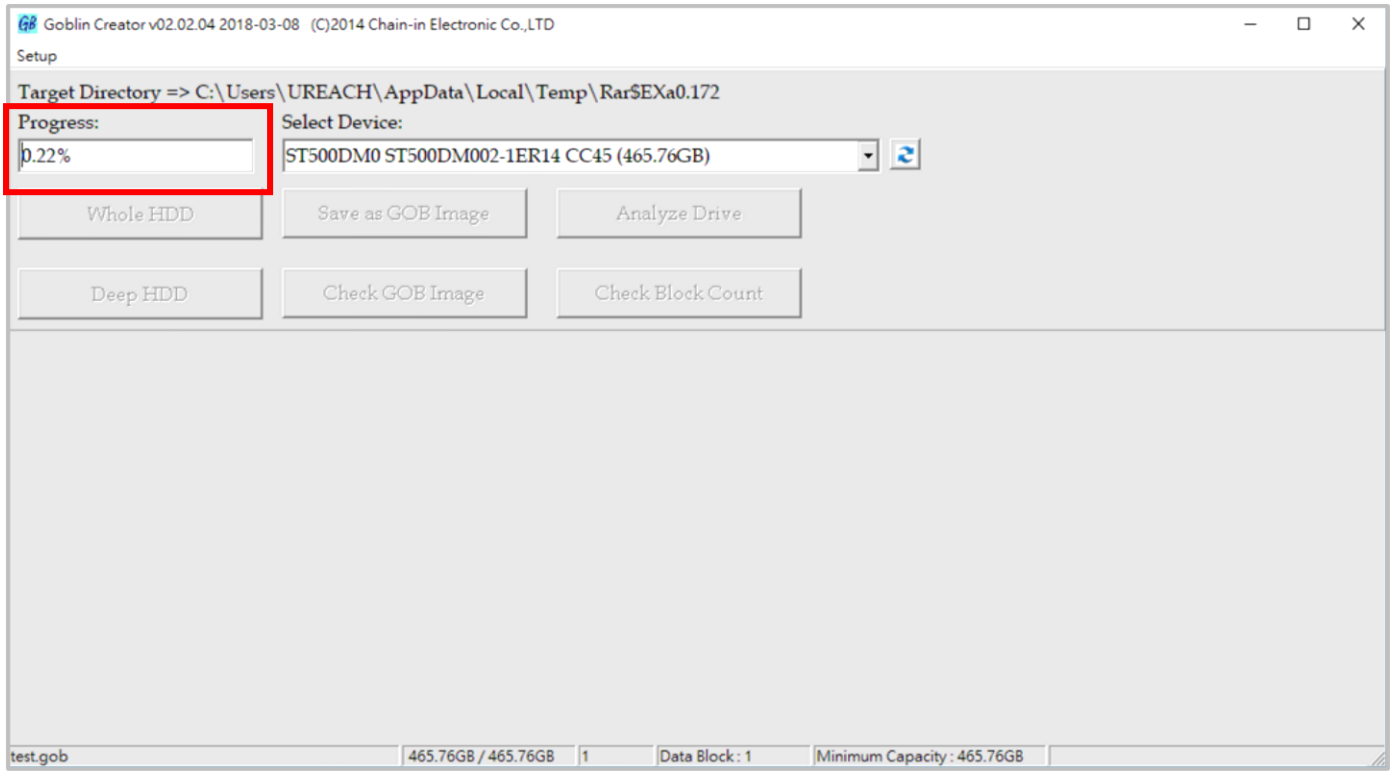


❷ Whole Device

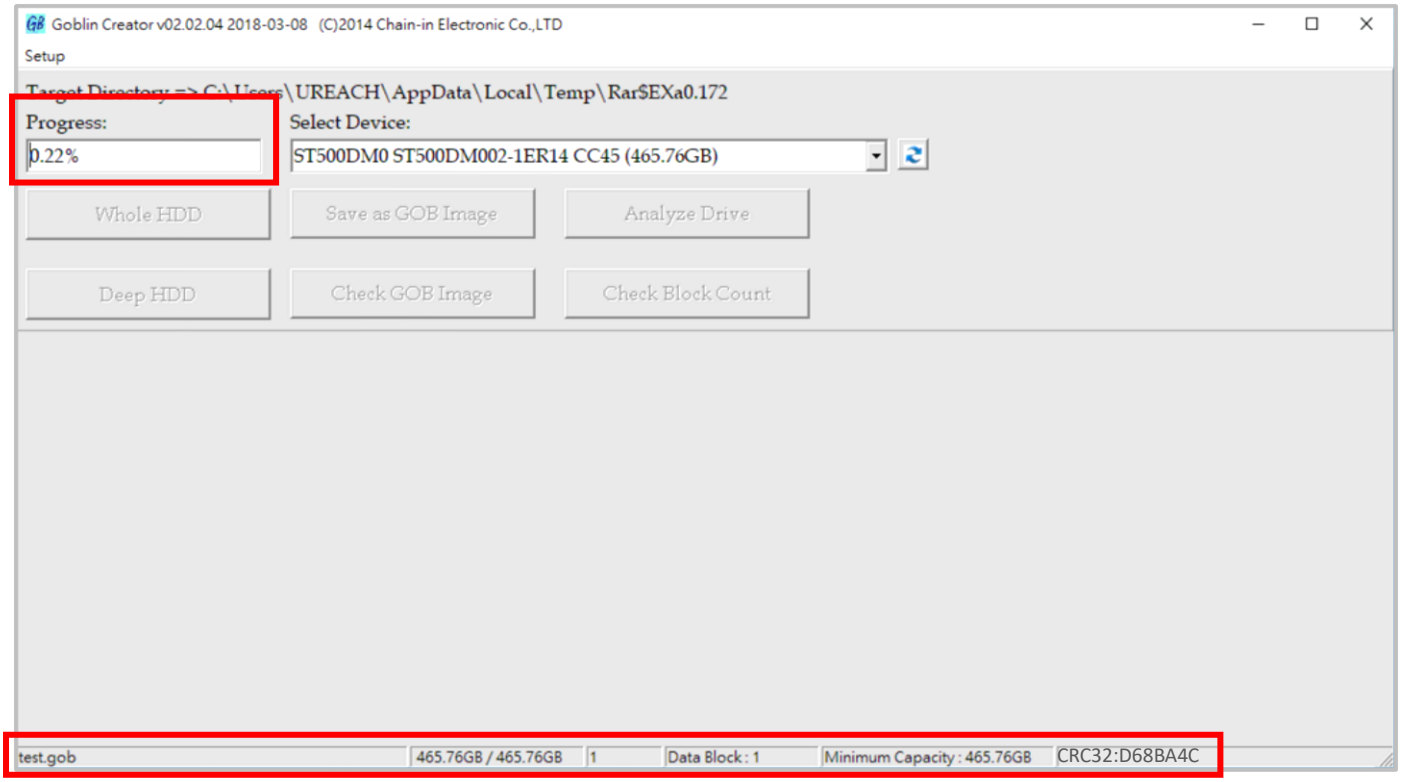
a. Click "Whole HDD," named the image and click "Save." The GOB file will be created.



b. During compiling process, the percentage of production is shown in the "Progress".



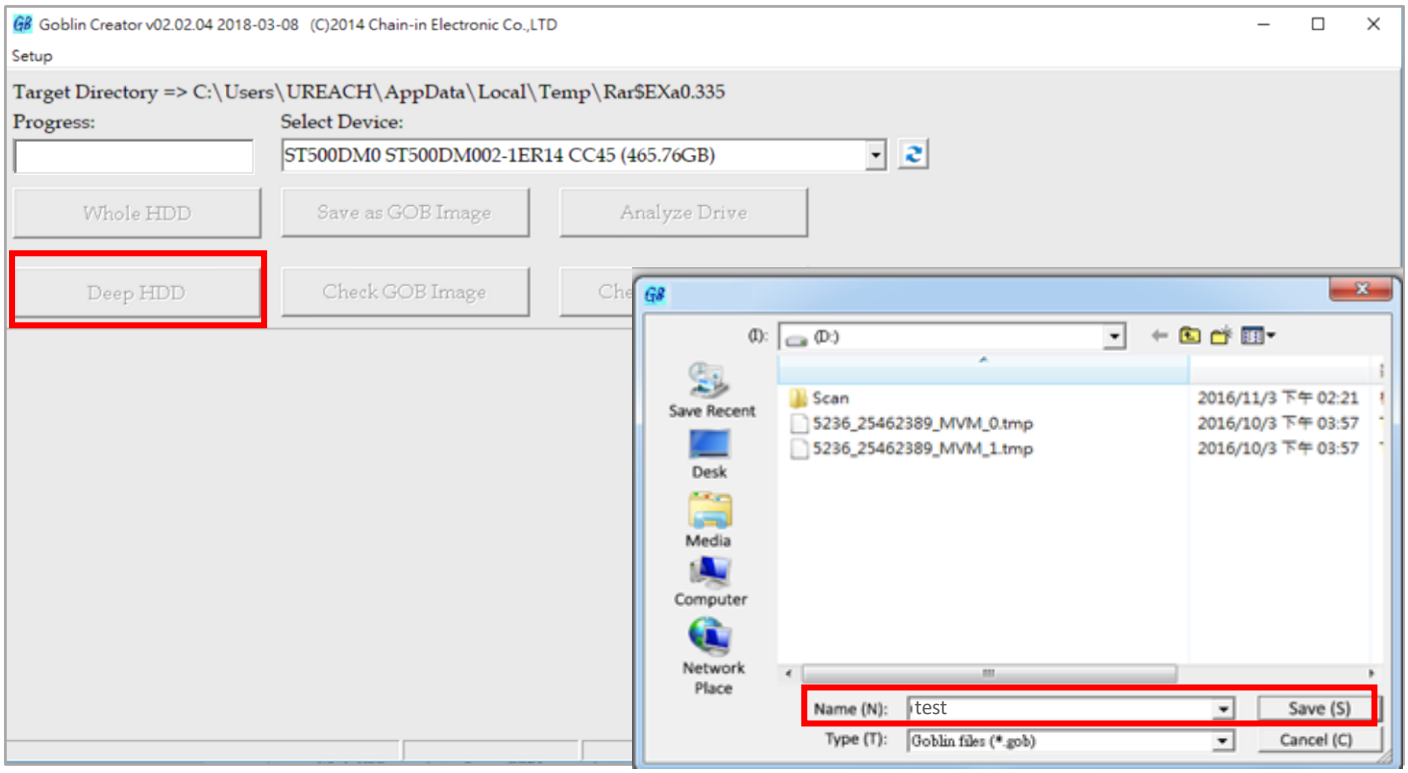
c. After completion, the detail of image information will display at the bottom.



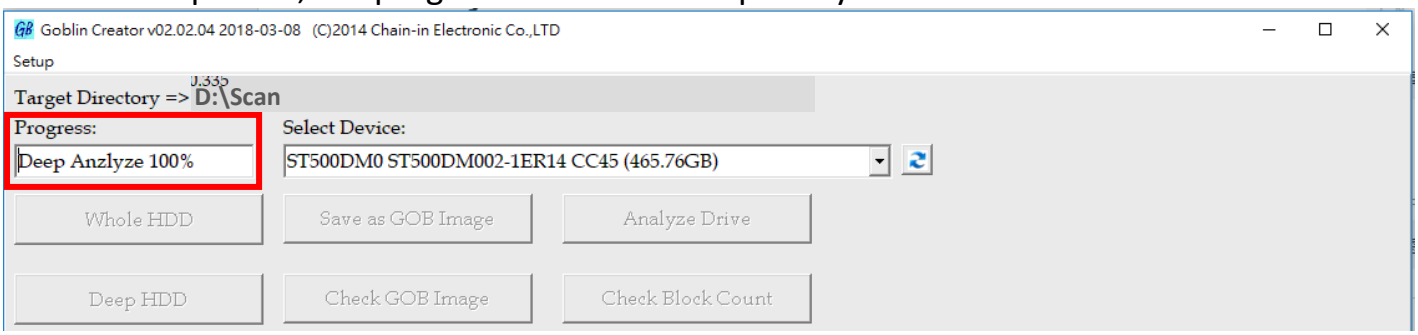
❸ Depth Profiling Analysis

This function is specially designed for data format which “System and Files copy mode” doesn’t support. It detects data area in the source and makes the image file.

a. Click "Deep HDD," name the image and click "Save." The device will start the deep analyze process, and the GOB file will be created.



b. After completion, the progress will show “Deep Analyze 100%.”



Caution	● If your source device has a lot of garbage data, the image file size made through Depth Profiling Analysis will be big. It is recommended to use a clean device to make a source. Executing 4.5 Secure Erase is one way to clean the device.

- Depth Profiling Analysis copy only supports new target device (clean target device). Without using a clean target device, there will be high risk for data error.

3. Upload the GOB Image to PCIE Duplicator

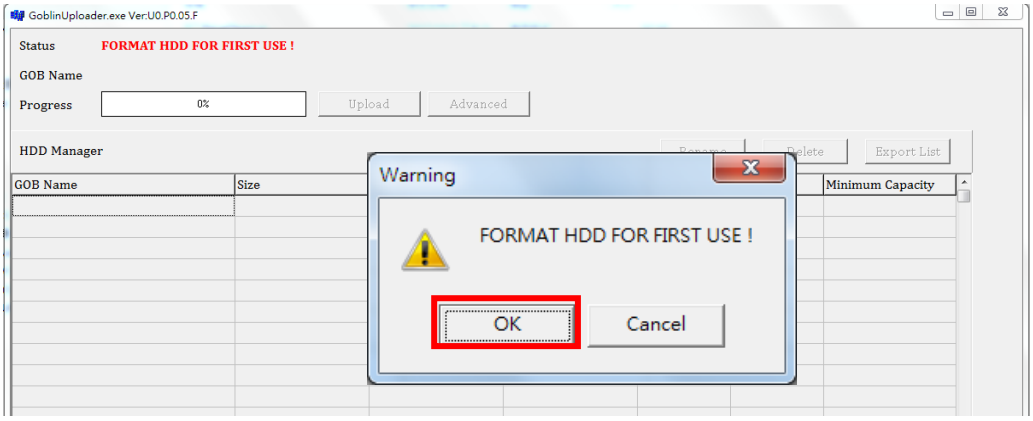
Steps 3.1 to 3.4 are for users who have purchased an optional internal SSD and will be setting it up for the first time.

3.1 Insert an SSD into the internal port of the PCIE duplicator.

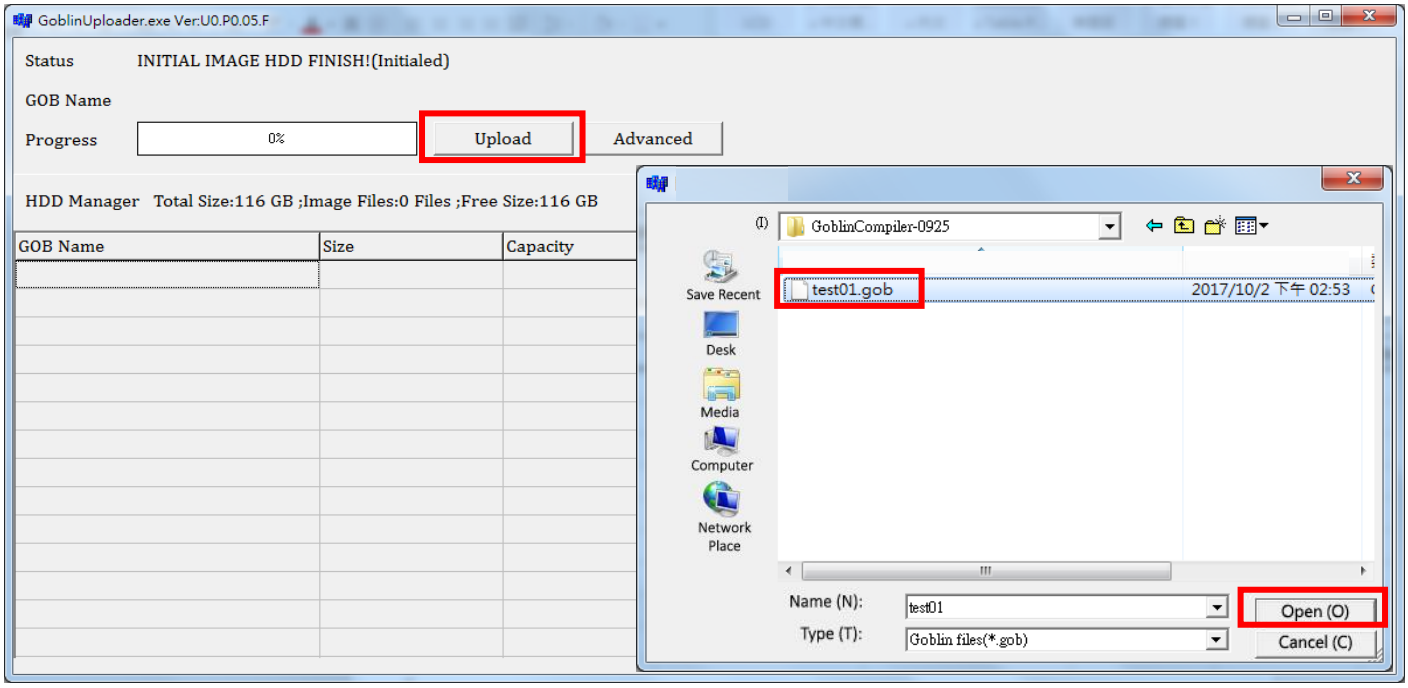
3.2 Connect your computer via USB cable to the PCIE duplicator with both systems powered on.

3.3 Double click PCIE-Upload Image and execute "GOB Uploader application."

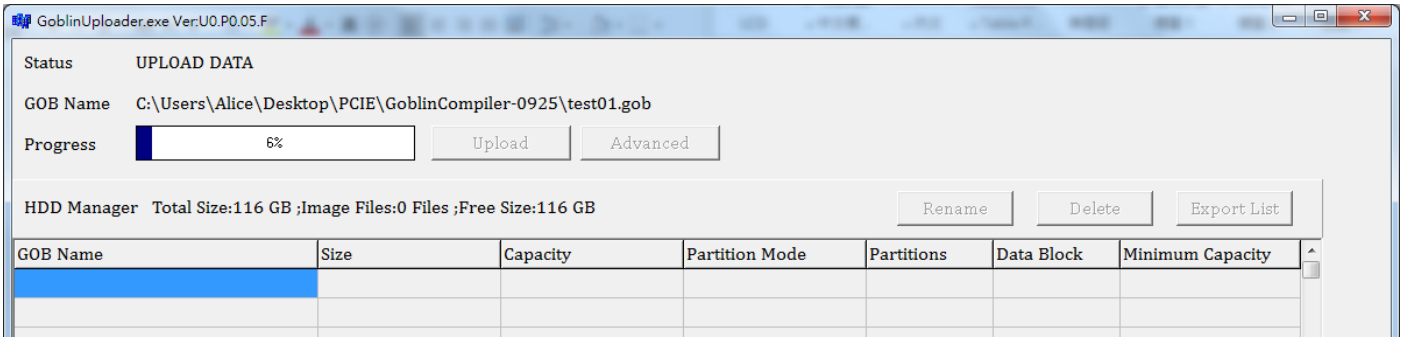
3.4 After successful detection, a popup menu will display (shown in the figure below). Click OK to "Format HDD FOR FIRST USE." This formats the internal SSD installed in the PCIE duplicator.

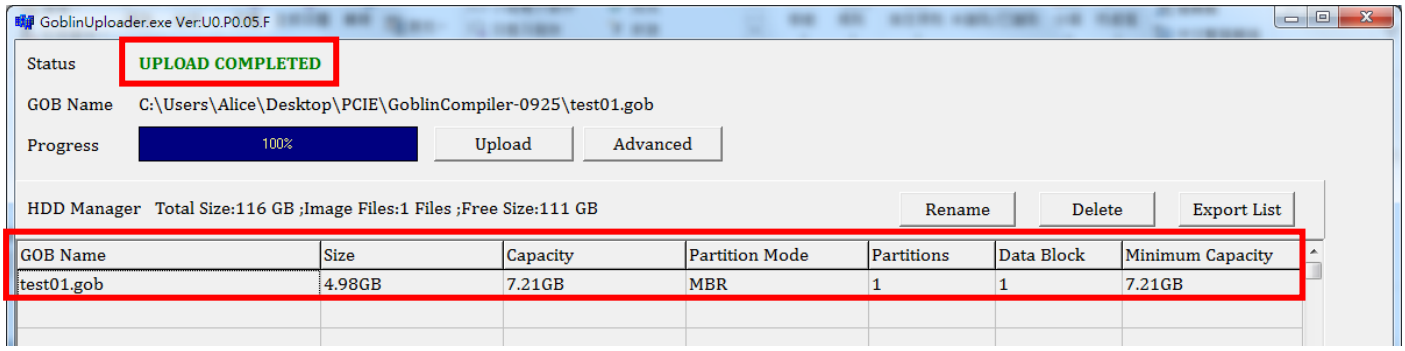


3.5 Once formatted, click "Upload" and choose an image file. For example, select "test01.gob" then press "OPEN".



3.6 The progress bar will launch. It uploads the GOB image to the duplicator's internal SSD and completes at 100%.





Note

- To verify the GOB file in the duplicator, please power off, remove the USB link cable, and then power on the machine.
  Scroll through to select "1.2 Internal Storage", then press "OK" to verify the file name and size are correct.

  Select Image:
  Test01.gob 5096M

- A maximum of two duplicators can be connected. If more than two duplicators are connected, a popup menu will display an error message "Machine ID Not Match!"

- To resolve the error, all files must be deleted, except "GOB Uploader application" within PCIE-Upload Image folder.

4. How to copy by selecting GOB Image

4.1 Confirm that the GOB Image is stored on duplicator successfully.

4.2 Remove the USB connection cable from duplicator to PC and reboot the duplicator.

4.3 Scroll to select “1. 2 Internal Storage”, then press “OK” to select the GOB Image to copy from the duplicator’s built-in storage device.

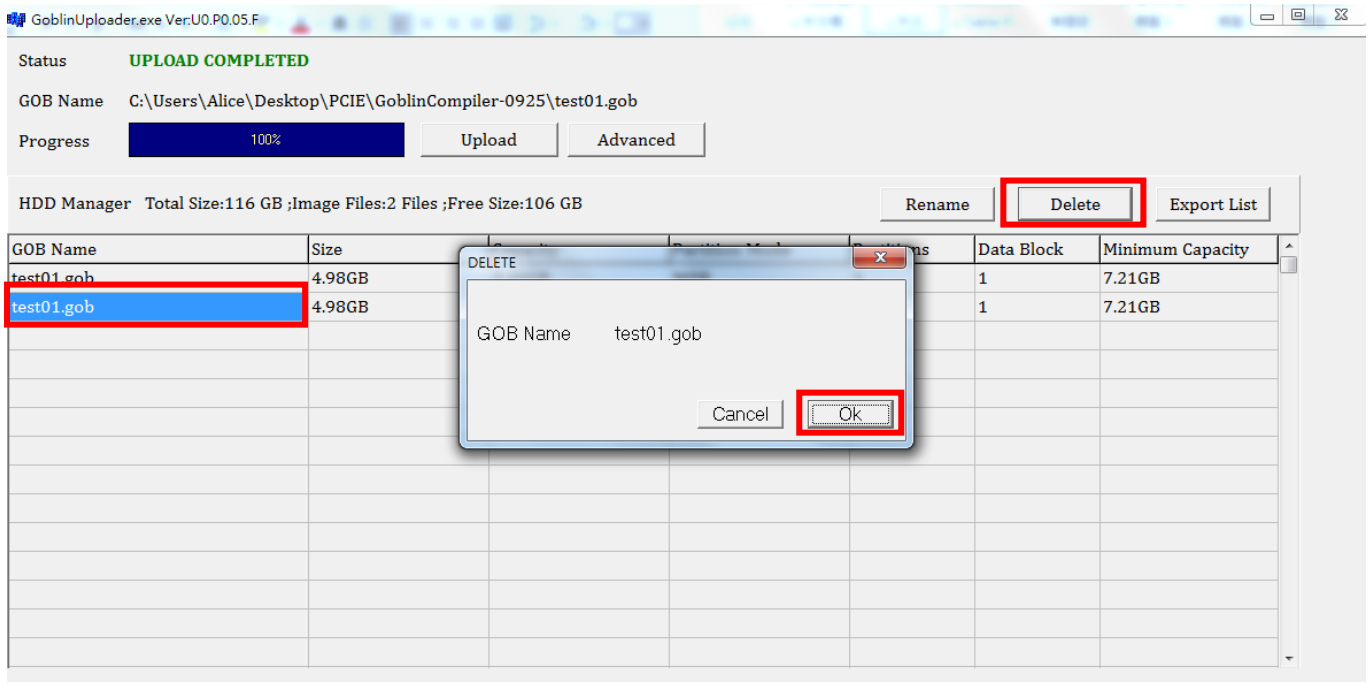
5. How to delete the GOB Image

5.1 Connect your computer via USB cable to the PCIE duplicator.

Then, execute “GOB Uploader application.”

5.2 Select the GOB file in the list, and press “Delete.”

5.3 Confirm the file name and then press “OK.”

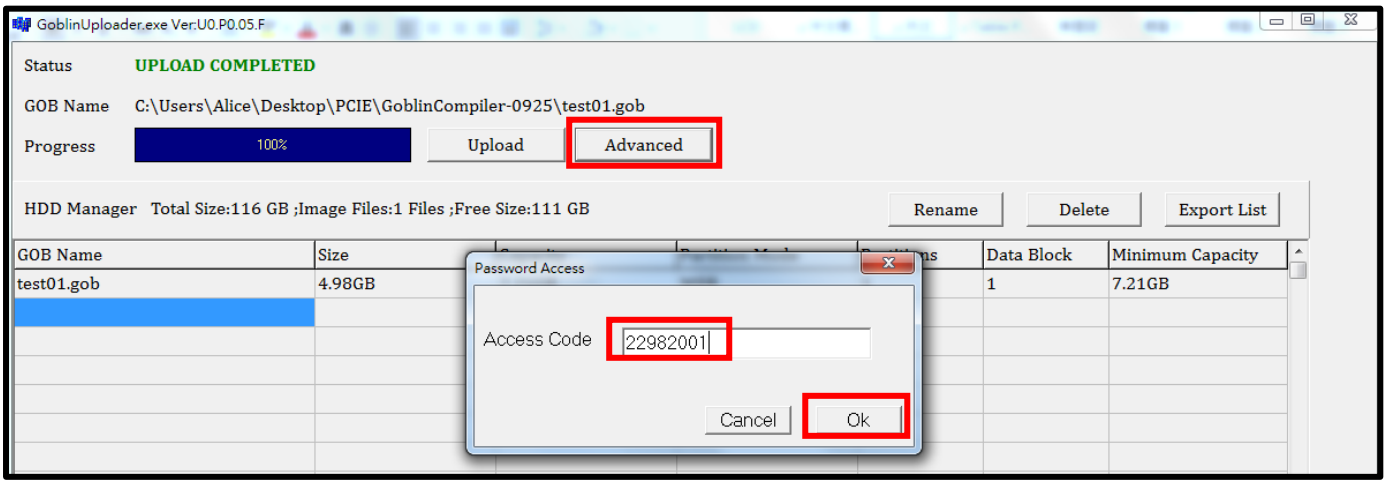


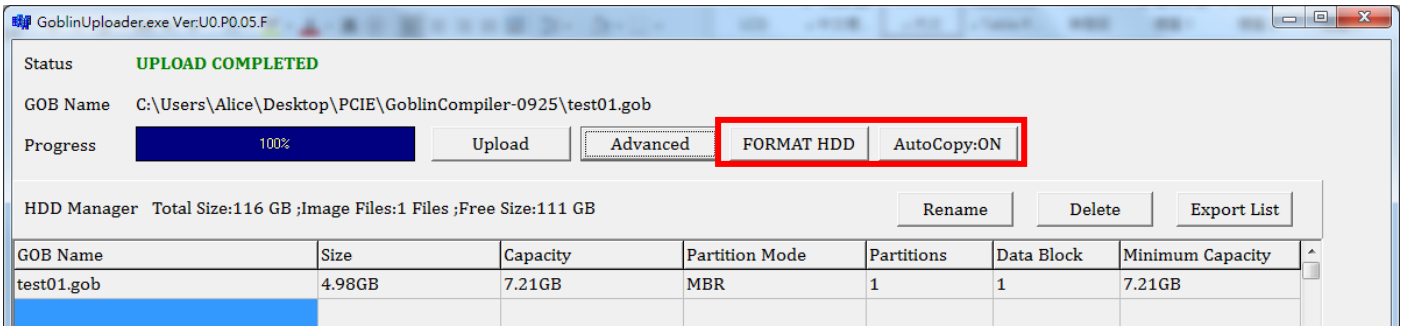
6. Advanced Functions

6.1 Connect your computer via USB cable to the PCIE duplicator.

Then, execute the “GOB Uploader application.”

6.2 Press “Advanced” and enter the password, “22982001.” It will display the advanced functions on the main screen.





■ Format the internal SSD in the PCIE duplicator.

Caution	Please backup all important data before using this function.

■ Auto Copy:
It will automatically copy after the image is uploaded.