

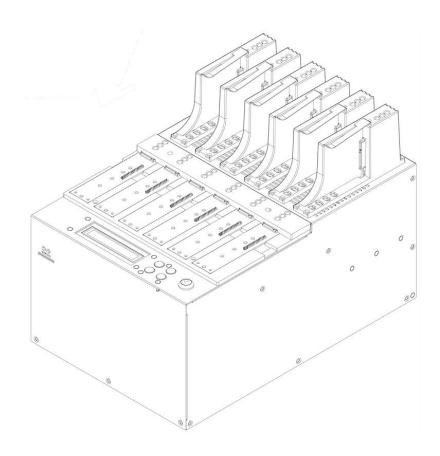
# **PHS-SAS Series**

M.2/SATA/SAS

Duplicator and Sanitizer

User Manual

v A.02



#### PHSSAS v A.02

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## **Product Disclaimer**

U-Reach is not accountable for any incidental or consequential damages, including, but not limited to property harm, loss of time or data from use of any U-Reach product, or any other damages attributable to product malfunction or failure of including without limitation, those attributed to reliance of the materials provided, costs of product replacement, loss of use, data or profits, delays or business interruptions, any principle of legal responsibility arising from or in reference to the use, overall performance, delays in servicing, or lack of ability to render service of any U-Reach product. U-Reach makes every effort to ensure proper function of all products. However, the customer is responsible for verifying that the output of U-Reach product meets the customer's quality requirement. The customer further acknowledges that improper use of U-Reach products, software program, and/or hardware issues can cause loss of data, defective formatting, or unreliable data loading. U-Reach will make efforts to resolve or repair any issues recognized by customer either within the warranty period or on a time and materials basis. Specifications and features are subject to change without notice or obligation.

# Warranty

U-Reach provides a basic, one-year parts and labor warranty for all its products, excluding cables, adapters, and other consumable items. An extended warranty may be purchased. Telephone and email support are available for the life of the product as defined by U-Reach.

All warranties are specific to a market region and will be defined per the market region in which the product was purchased.

# **Piracy Statement**

U-Reach accepts no responsibility for copyright infringement or misuse of any U-Reach equipment. Copying any form 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				
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 +	<b>3.1 Source Port</b> Copies and verifies data, bit-by-bit, from the device connected to the Source Port or Port #1.		
Compare	<b>3.2 Internal Storage</b> (Available when internal SSD is installed) Copies and verifies saved data images, bit-by-bit, from the duplicator's internal storage device.		
4. Erase	<b>4.1 Quick Erase</b> Erases device(s)' index table.		
	<b>4.2 Full Erase</b> Erases entire device(s) complying with NIST 800-88 Standards.		
	4.3 DoD Erase Erases device(s) complying with DoD 5220.22-M Standards.		
	<b>4.4 DoD EraseComp</b> Erase device(s) complying with DoD 5220.22-M Standards and verifies complete erasure.		
	<b>4.5 7-Pass Erase</b> Erases device(s) 7 times complying with DoD 5220.22-M(ECE) Standards.		
	<b>4.6 Secure Erase</b> Erases the non-loadable areas complying with NIST 800-88 Standards.		
	<b>4.7 Enhanced Secure Erase</b> Erases devices that support this feature.		
5. Utility	<b>5.1 Show Device Info</b> Displays basic information such as device model, name, capacity, etc.		

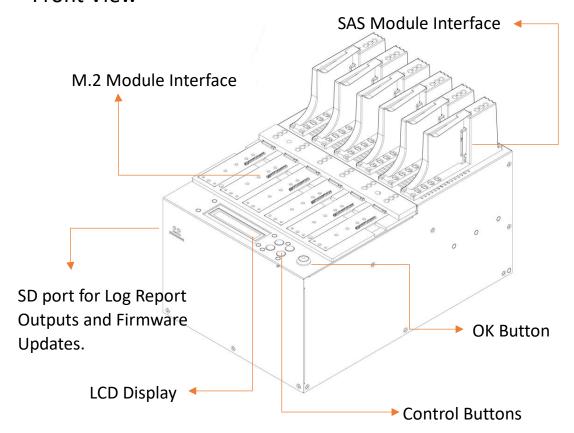
	5.2 Update Systo	em	<b>5.2.2 Create Updat</b> Prepares by format	mware through the SD port.  te HDD  tting the device to a 2GB FAT
			partition to accept	firmware file.
	<b>5.3 System Info</b> Displays system information such as controller, model number, software version, etc.			
	<b>6.1 Start-up Menu</b> Sets default function to display after equipment initialization.			
6. Setup			System and Files Copies data and skips empty space. Only supports standard formats.	
	6.2 Copy Area	(	All Partitions Copies or skips HPA, DCO, unknown partitions, modified formats, etc. defined by settings.	
			Whole HDD Copies all source data, bit-by-bit.	
			Percentage (%) Sets percentage of source capacity to copy.	
			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 Sector Skips source bad sectors.			
	6.5 Language Sets preferred language.			
	6.6 Advanced Setup		.6.1 Unknown Format	Copy Unknown Copies unknown format(s).
		6.6.		<b>Skip Unknown</b> Skips unknown format(s).
		6.6.	2 Erase Master	<b>Disabled</b> Source port will be unable to erase.

		Enabled				
		Source port will be able to				
		erase.				
		One Byte				
		Random character written per				
	6.6.3 Erase Pattern	byte.				
	0.0.0 2.000 1 0.000	Big Random Data				
		Random character written in a				
		set of area.				
		6.6.4 Wait HDD Time				
	Sets device power up etc.	Sets device power up buffer time prior to copy, erase, etc.				
		Do NOT Lock Key				
		Do Lock Key				
	6.6.5 Lock Key	Only down/up buttons are				
		disabled. Reboot system for				
		setting to be in effect.				
	•	6.6.6 Stop Motor Time				
	disconnection.	Sets device power down buffer time prior to device				
		6.6.7 Boot Password Sets up the login password.				
	out ap and regarded					
		No				
	6 6 X DAIATA DISK	No				
	6.6.8 Delete Disk	Yes				
	Signature After Copy					
	Signature After Copy  6.6.9 PCIe Speed	Yes Do not copy the disk signature onto target devices.  Normal				
	Signature After Copy	Yes Do not copy the disk signature onto target devices.  Normal				
	6.6.9 PCIe Speed Sets data transmission	Yes Do not copy the disk signature onto target devices.  Normal Low Speed				
	Signature After Copy  6.6.9 PCle Speed Sets data transmission speed.  6.6.10 Target Toleran Sets the capacity toler	Yes Do not copy the disk signature onto target devices.  Normal Low Speed  ce ance range between the source				
	6.6.9 PCIe Speed Sets data transmission speed. 6.6.10 Target Toleran	Yes Do not copy the disk signature onto target devices.  Normal Low Speed  ce ance range between the source				
	Signature After Copy  6.6.9 PCIe Speed Sets data transmission speed.  6.6.10 Target Toleran Sets the capacity toler and target. The default	Yes Do not copy the disk signature onto target devices.  Normal Low Speed  ce ance range between the source t setting is "No limit".				
	Signature After Copy  6.6.9 PCle Speed Sets data transmission speed.  6.6.10 Target Toleran Sets the capacity toler and target. The default	Yes Do not copy the disk signature onto target devices.  Normal Low Speed  ce ance range between the source t setting is "No limit".  No				
	Signature After Copy  6.6.9 PCIe Speed Sets data transmission speed.  6.6.10 Target Toleran Sets the capacity toler and target. The default	Yes Do not copy the disk signature onto target devices.  Normal Low Speed  ce ance range between the source t setting is "No limit".				
6.	Signature After Copy  6.6.9 PCle Speed Sets data transmission speed.  6.6.10 Target Toleran Sets the capacity toler and target. The default	Yes Do not copy the disk signature onto target devices.  Normal Low Speed  ce ance range between the source t setting is "No limit".  No The default setting is "No".				

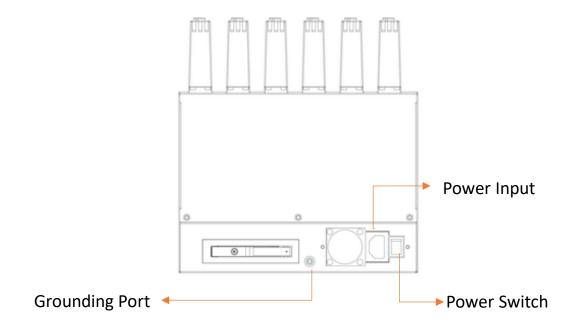
	7.1 Out Today Report Outputs today's log data.		
7. Log Manager	7.2 Out Recent Report Outputs recent log data.		
	7.3 Out Period Date Outputs a set period of log data.		
	7.4 Advanced Function Default password: 123456	<b>7.4.1 Clear All Logs</b> Clear all log records.	
		<b>7.4.2 Setup Password</b> Allows password change.	
		<b>7.4.3 Adjust Clock</b> Change time and date.	
	8.1 Copy SSD to Image Uploads the source data onto internal SSD.		
8. Image Manager	<b>8.2 Compare SSD with Image</b> Compares the source data with an image file stored in the internal SSD.		
(Available when the SSD is inserted into the slot or else this function will not be displayed in the menu.)	8.3 Show Image Tank Displays the disk information of the internal SSD.		
	8.4 Show One Image Display image information.		
	8.5 Rename One Image Rename an image file.		
	8.6 Delete One Image Delete an image file of the internal SSD.		
	8.7 Format Image Tank Formats the internal SSD for duplicator.		

# **Product Overview**

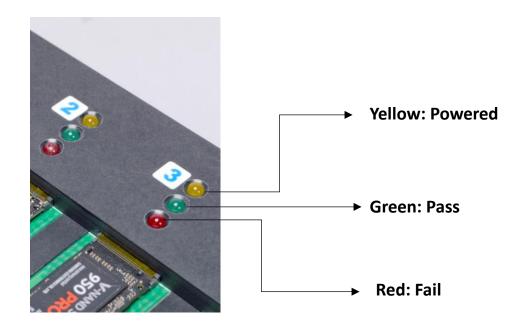
### Front View



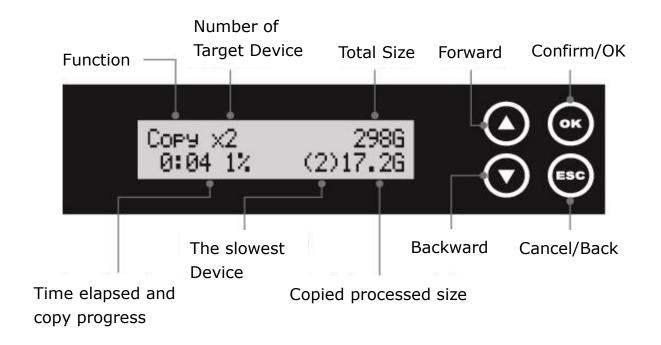
## Back View



### 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.**

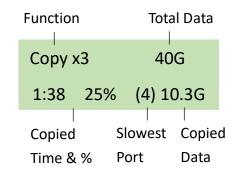
Scroll to select "1. Copy", then press "OK" to select which source to copy from. Scroll to select "1.1 Source Port" or select "1.2 Internal Storage", then press "OK" to start the duplication process.

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.

Copy 40.0G 3ready



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 1<sup>st</sup> 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

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 "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 "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 "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 "DoD EraseComp", then press "OK" to start the erasing and verification process.

#### 4.5 7-Pass Erase

This function will erase device(s) 7 times complying with DoD 5220.22-M(ECE) Standards. Scroll to select "7-Pass Erase", then press "OK" to start the erasing process.

#### 4.6 Secure Erase

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

Note

This function is available for NVMe and SATA Device only.

Caution

If Secure Erase process is interrupted, the device will be locked. Please execute again and wait until it finishes.

#### 4.7 Enhanced Secure Erase

This function erases devices that supports this feature.

Scroll to select "Enhanced Secure Erase", then press "OK" to start the erasing process.

Note

Although Secure Erase/ Enhanced Secure Erase is a command of the SATA-specification, not all SATA devices can support it. When a device that cannot be supported is encountered, the LCD will display Not Support!

# 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 Device Info**

This function will display basic information such as device model, name, capacity, etc.... Scroll to select "Show Device 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 card'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 "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 Update HDD

Step 1: Connect a device to the source port.

### Step 2: Scroll to select "Create Update HDD", then press "OK" to start the

### format process.

This function 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 "System Info", then press "OK" to view the connected device(s). Then scroll through to view all information.

# 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 "Start-up Menu", then press "OK." Next, scroll through the available menus for startup.

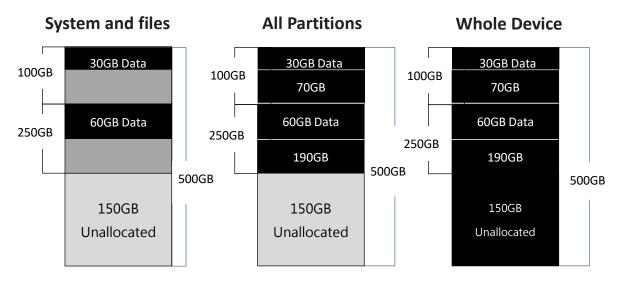
#### 6.2 Copy Area

There are 5 submenu modes.

Scroll to select "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:

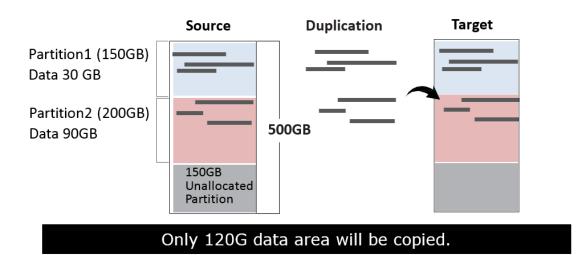
- 6.2 Copy Area
- 6.4 Skip Bad Sector

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

#### System and Files

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

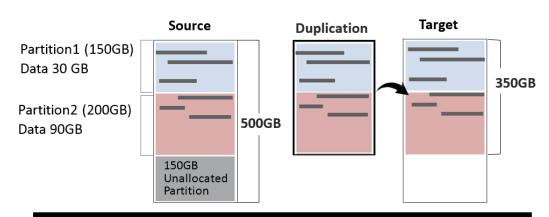
Allows user to copy source device's System and Files, instead of the entire device. The system will analyze the source device and identify the data area to copy. If the source device's data is within the target device's capacity, the copy will be processed. FAT16/32/64, NTFS, EXT2/EXT3/EXT4/LVM, and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



#### 2 All Partitions

Copy or skip HPA, DCO, unknown partitions, modified formats, etc. defined by settings. Scroll to select "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.



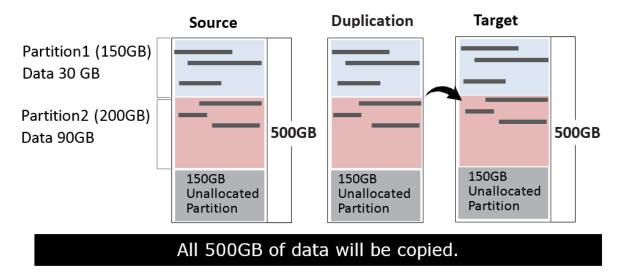
350GB of all Partitions along with its contents will be copied.

#### Whole HDD

Copies all source data, bit-by-bit.

Scroll to select "Whole HDD", then press "OK" to save the copy method.

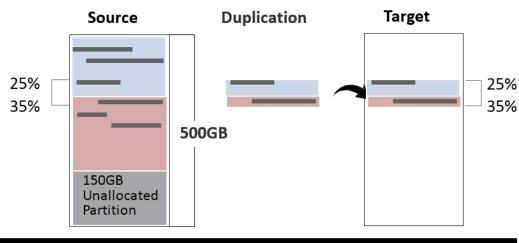
Copies the whole source device, irrespective of content, format, partition, or empty space. This mode does not analyze the data.



### Percentage (%)

Select percentage of source capacity to copy.

Scroll to select "Percentage", then press "OK" to save the copy method.



Only copies the selected area.

### O 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 "Deep Analysis", then press "OK" to save the copy method.

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."

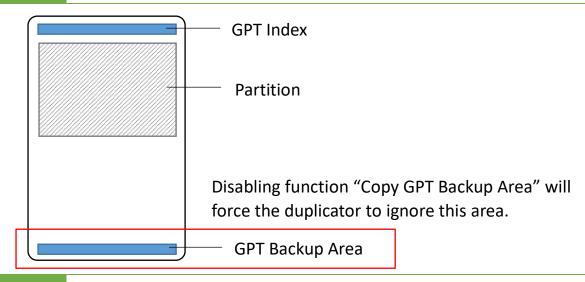
Caution

- 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

Disabling 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.



Caution

If function is disabled, the target device will reconstruct the GPT Backup Area by Windows system. It may require the SSD to restart in order to work.

### 6.4 Skip Bad Sector

Skip source bad sectors during Copy/Compare.

Scroll to select "Skip Bad Sector", 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.

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

### 6.5 Language

Select English or Japanese, Spanish.

Scroll to select "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: "System and Files" and "All Partition". Scroll to select "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 "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 "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 Wait HDD Time

Set device power up buffer time prior to copy, erase, etc...

Scroll to select "Wait HDD Time, then press "OK" to set buffer time from 5 to 99 seconds or "Wait Key to Start". The default is 30 seconds.

#### 6.6.5 Lock Key

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

#### Do NOT Lock Key

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

#### Do Lock Key

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.

#### 6.6.6 Stop Motor Time

Set device power down buffer time prior to device disconnection.

Scroll to select "Stop Motor Time", then press "OK" to set buffer time from 1 to 20 seconds. The default is 3 seconds.

#### 6.6.7 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 fbe sent back for reset if the password is forgotten.

### 6.6.8 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 "Delete Disk Signature After Copy" is set at "Yes."

### 6.6.9 PCIe Speed

Set data transmission speed at "Normal" or "Low Speed."

### 6.6.10 Target Tolerance

This function sets the capacities tolerance range between the source and target device. If the capacity is outside the tolerance range, the copy will fail.

### 6.6.11 Clean SSD Before Copy

Sets to clear SSD before copy function. The default setting is "No".

#### **6.7 Restore Defaults**

Restores all setting to manufacture defaults.

Scroll to select "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.

#### Log Report Diagram



Port/Date/Time(Lapsed Time) [ Model No. ]

[Revision][S/N] Capacity(Sectors)[Write Speed]

Port:02, 2018-10-12 11:46:21 ( 6 seconds) NVMe[SAMSUNG MZVPV128HDGM-00000 ][BXW7300Q][S1XVNYAH305965 ] 119.2GB(250069680) [Write Speed=370.9MB/second] Composite Temperature : 302 degree Kelvin (29 degree Celsius) Available Spare : 100% Available Spare Threshold: 10% Percentage Used: 4% Data Units Read: 6427.95 GB Data Units Written: 9580.19 GB Host Read Commands: 95047612 S.M.A.R.T Info. Host Write Commands: 208258253 Controller Busy Time: 639 Power Cycles: 2410 Power On Hours: 67 Unsafe Shutdowns: 2085 Media and Data Integrity Errors: 0 Warning Temperature Time : 0 Critical Temperature Time: 0

#### **How to Export Log Reports** II.

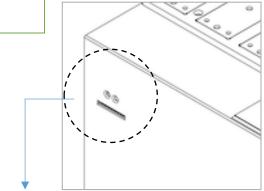
The Log Report Management Tool assists users with monitoring, recording, and managing the entire duplication process. By displaying detailed information for each port, this tool helps to identify the slowest writing device, that in turn, keeps the operation running efficiently.

Note 2.

- The SD must be FAT16/FAT32 format.
- The LCD will display the number of recorded logs.

(E.g. #1-#6 means there are 6 logs.)

- **Out Today Report** Export today's log report to SD card.
- Out Recent Report Exports a recent log report (1-28 days) to SD card.
- 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. Select "Out Today Report", then press "OK" to output log report to a SD card.

#### 7.2 Out Recent Report

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

#### 7.3 Out Period Date

Outputs recent log report. Select "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. Select "Advanced Function", then press "OK" access submenus. Default password: 123456

#### 7.4.1 Clear All Logs

Clear all log records. Select "Clear All logs", then press "OK" to clear all log records.

### 7.4.2 Setup Password

Allows password change. Select "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. Select "Adjust Time/Date", then press "OK" to adjust the time and date.

# 8. Image Manager

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

Note

1. This function can be used when the SSD is inserted into the slot or else this function will not be displayed in the menu.

- 2. When performing the "Image Manager" function, please do not remove the SSD in the slot, which will cause the copy failure.
- 3. It is strongly recommended to lock the SSD slot and keep the key safely.

### 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

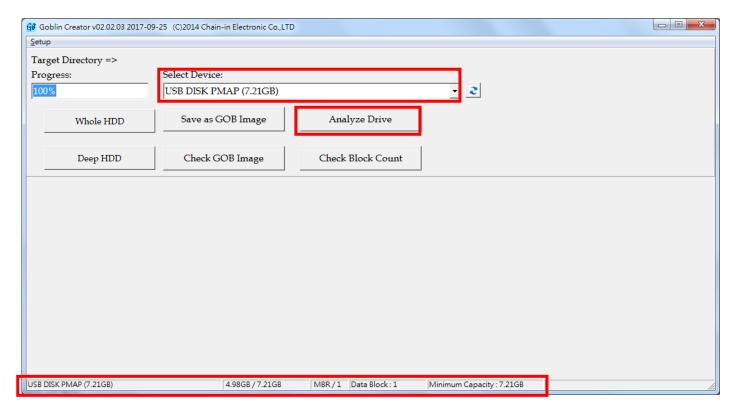
Users can easily create a GOB image on PC, upload it to the machine and do duplication.

#### 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 which to install the driver.

#### 2. Creating a GOB Image

- 2.1 Connect a source drive to PC.
- 2.3 Select the source device, and then click "Analyze Drive," it will display data details at the bottom.



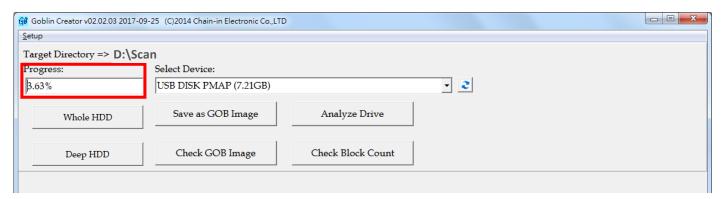
Note

If the device has not been detected in the list, please click [2] "renew button" in the right.

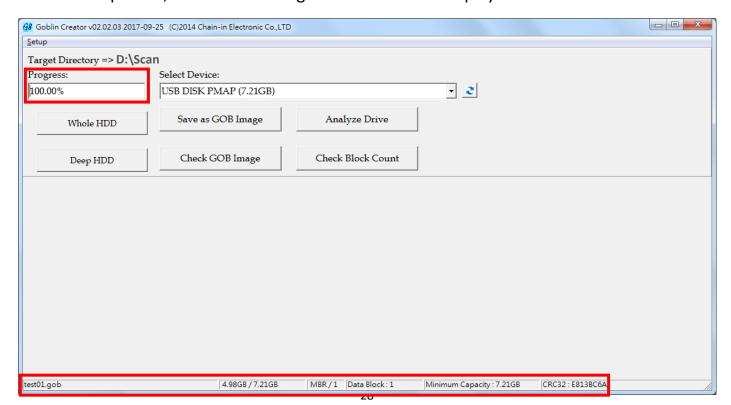
Caution

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.
- 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".

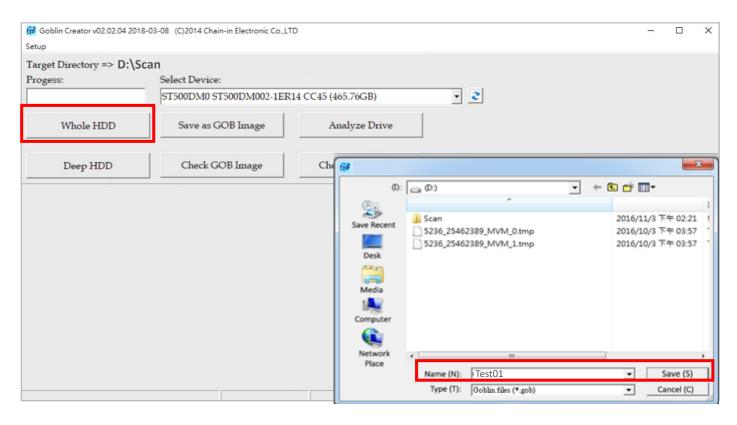


c. After completion, the detail of image information will display at the bottom.

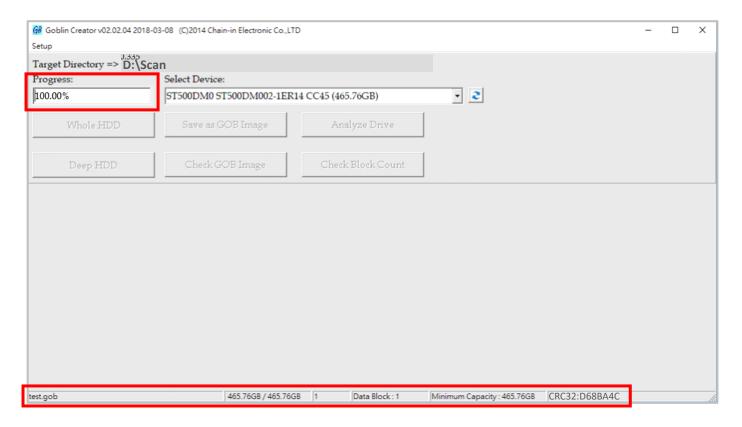


#### Whole Device

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



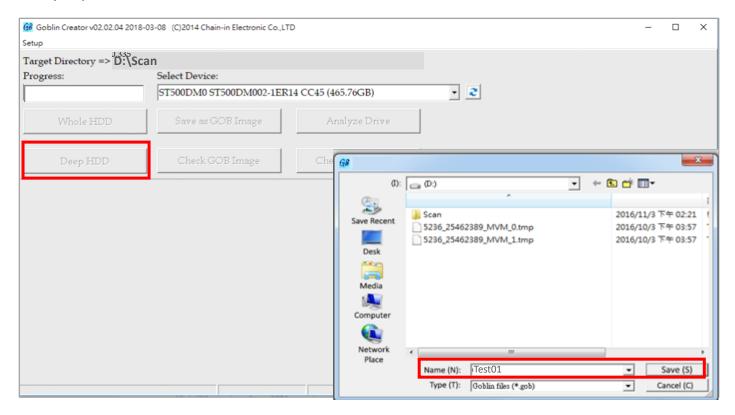
- b. During compiling process, the percentage of production is shown in the "Progress".
- c. After completion, the detail of image information will display at the bottom.



#### Open 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.

#### 2.5 Other Functions

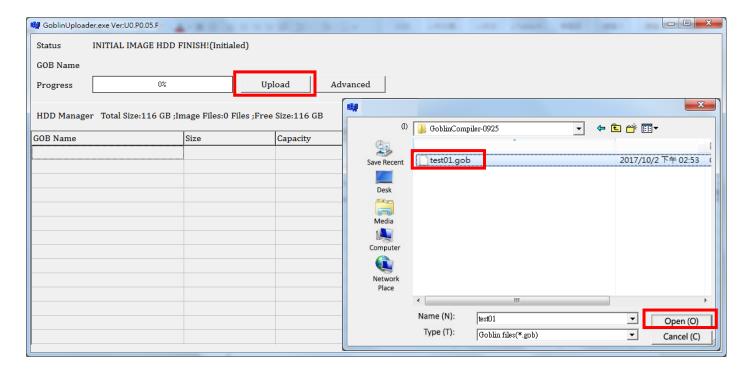
There are 2 functions for checking the status of GOB file, including Check GOB Image, and Check Block Count.

- Check Gob Image: To determine if the GOB disk image file was broken or re-edited.
- 2 Check Block Count: To calculate the number of data block in the disk drive. The transmission can acutely cause delays when the data block count is greater than 10000.

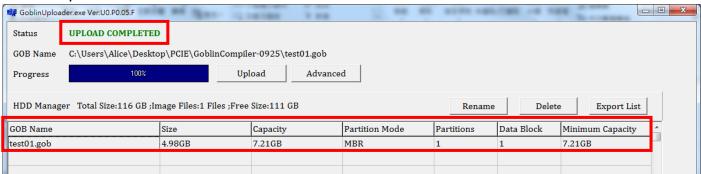
#### 3. Upload the GOB Image to PCIE Duplicator

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 format 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%.



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.
 Note
 Select Image:

 Test01.gob
 5096M

 Only one duplicator is allowed to be connected.
 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

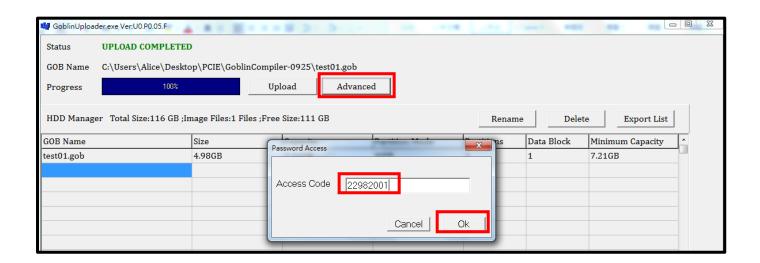
- 5.1 Connect your computer via USB cable to the PCIE duplicator.

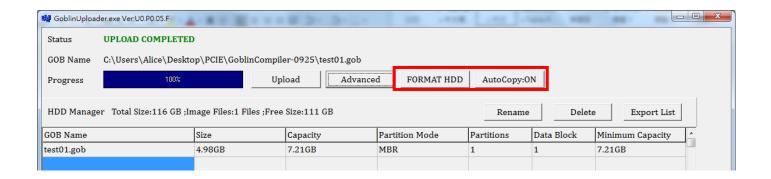
  Then, execute "GOB Uploader application."
- 5.2 Select the GOB file in the list, and press "Delete."
- 5.3 Confirm the file name and then press "OK."

#### 6. Advanced Functions

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

  Then, execute the "GOB Uploader pplication."
- 6.2 Press "Advanced" and enter the password, "22982001." It will display the advanced functions on the main screen.





■ Format HDD:

Format the internal SSD in the PCIE duplicator.

Caution Please backup all important data before using this function.

AutoCopy:

It will automatically copy after the image is uploaded.

Specifications are subject to change without notice.