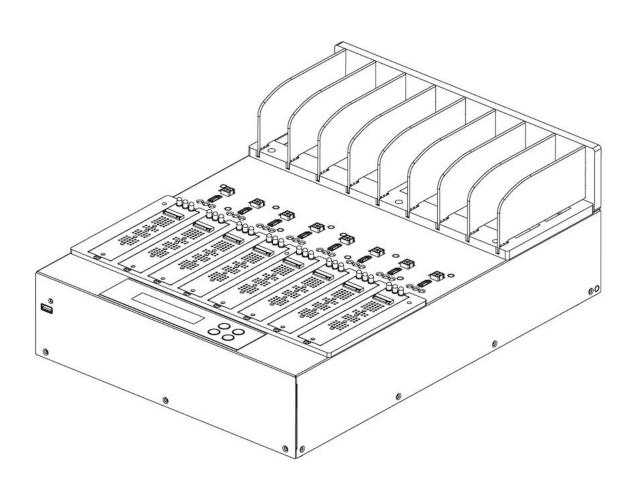


PCIe NVMe/SATA SSD Duplicator & Sanitizer XW Series User Manual



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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.

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	Copies data from source device to targets. (There are four copy modes in function "6.1 Copy Area")		
2. Compare	Verifies the targets to the source device to ensure copy accuracy.		
3. Copy+Compare	Automatically launches compare function after copy is completed.		
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 Show Disk Info Displays basic information such as device model, name, capacity, etc.		
	5.2 Update System Updates system firmware through the USB port.		
	5.3 System Info Displays system information such as controller, model number, software version, etc.		
6. Setup	6.1 Start-up Menu Sets default function to display during equipment initialization.		
	6.1.1 System and Files Copies data and skips empty space. Only supports standard formats.		

	6.1.2 All Partitions					
	Copies or skips HPA, DCO, unknown partitions,					
	modified formats, etc. defined by settings.					
	6.1.3 Whole HDD					
	Copies all source data, bit-by-bit.					
	6.1.4 Percentag Sets percentage	e (%) of source capacity to copy.				
6.3 Copy GP	6.3 Copy GPT Backup Area					
	Enable this function to copy the end GPT format.					
-	6.4 Skip Bad Sectors Skips source bad sectors.					
6.5 Language						
	Sets preferred language: English or Japanese.					
		6.5.1.1Copy Unknown				
	6.6.1	Copies unknown format(s).				
	Unknown Format	6.5.2.2 Skip Unknown				
		Skips unknown format(s).				
	6.6.2	6.5.2.1 Disabled Source port will be unable to erase.				
	Erase Master	6.5.2.2 Enabled Source port will be able to erase.				
6.6	6.6.3 Erase Pattern	6.5.3.1 One Byte				
Advanced Setup		Random character written per byte.				
		6.5.3.2 Big Random Data Random character written in a set of area.				
	6.6.4Wait HDD Tin	6.6.4Wait HDD Time				
	Sets device power up buffer time prior to copy, erase, etc.					
		6.5.5.1 Do Not Lock Key				
		6.5.5.2 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

Sets device power down buffer time prior to device disconnection.

6.6.7 Boot Password

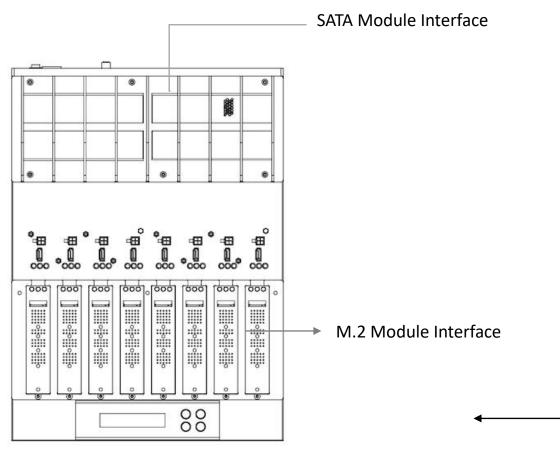
Sets up the login password.

6.7 Restore Defaults

Reinstates manufacturer settings.

Product Overview

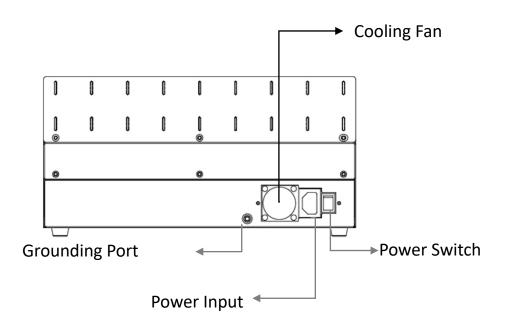
Front View



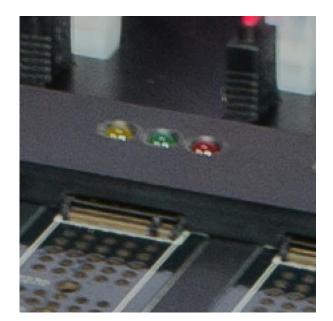
LCD Display

Control Buttons

Back View



LED Status

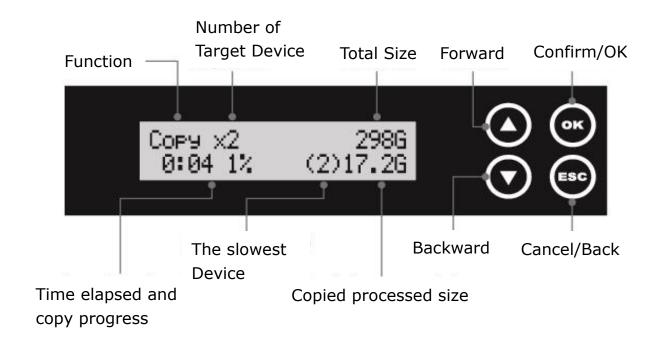


Yellow: Powered

Green: Pass

Red: Fail

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.

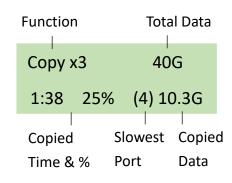
Scroll to select "1. Copy", then press "OK" to select which source to copy from. Scroll to select "1.1 Source Port" or select "1.2 Internal Storage", then press "OK" to start the duplication process.

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.

2. Compare

Scroll to select "2. Compare", then press "OK" to select which source to verify from.

Note

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

3. Copy+Compare

Sequentially automates from Function 1, Copy to Function 2, then Compare. Scroll to select "3. Copy+Compare", then press "OK" to start the automated duplication and verification process.

4. Erase

There are 4 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 6.6.2.2 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 Device Info", then press "OK" to view the connected device(s). Then through to view connected device(s) by port number order.

5.2 System Update

Step 1: Prepare a USB drive for update.

Connect a USB drive to PC. Download the latest firmware provided from our technical support, unzip the BIOS firmware, and save it to the root directory in the USB drive.

Note

The USB's format must be: FAT16 or FAT32.

Step 2: Proceed to update firmware

Connect USB drive to the USB port in front of the duplicator. Scroll to select "5.2.1 Update BIOS", then press "OK" to start the firmware update process.

[Update System] 1.Update BIOS

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.

5.3 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.

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

Sets which function is displayed powered on. The default setting is "1. Copy".

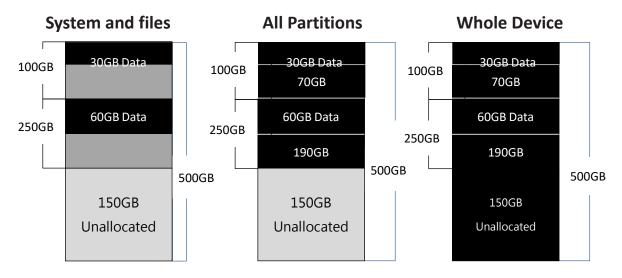
6.2 Copy Area

There are 4 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 This function will copy the within the defined partitions.

entire device.

Copy and Compare Preparations

Please consider the following settings before proceeding with copy:

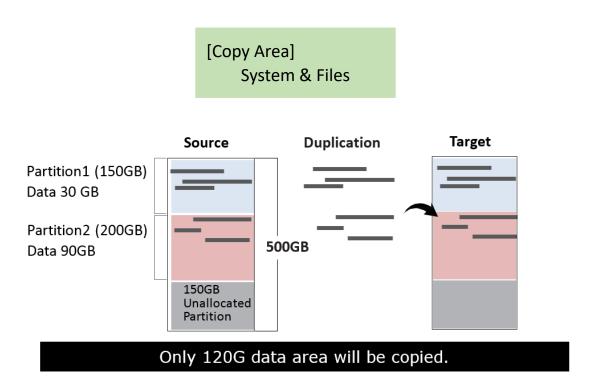
- 6.2 Copy Area
- 6.3 Copy GPT Back Area
- 6.3 Skip Bad Sectors

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/XFS/LVM, and HFS/HFS+/HFSX are supported in this copy mode.

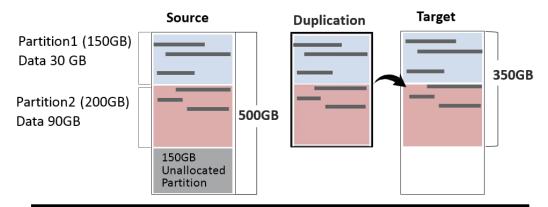


6.2.2 All Partitions

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.

[Copy Area]
ALL Partitions



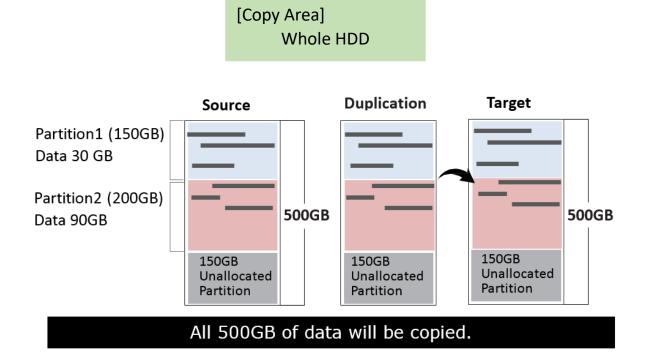
350GB of all Partitions along with its contents will be copied.

6.2.3 Whole HDD

Copies all source data, bit-by-bit.

Scroll to select "6.2.3 Whole HDD", then press "OK" to save the copy method.

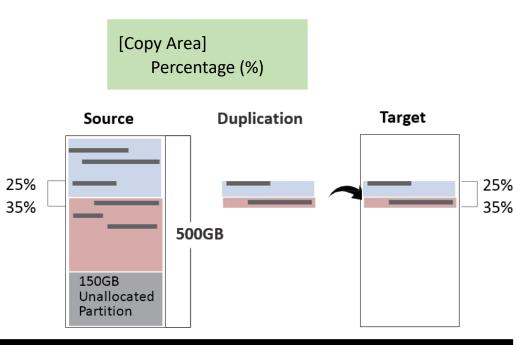
Copies the whole source device, irrespective of content, format, partition or empty space. This mode does not analyze the data.



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.

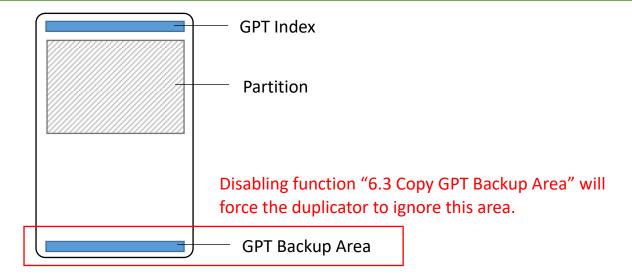


Only copies the selected area.

6.3 Copy GPT Backup Area

Disabling this function allows the duplicator to copy from big capacity device to small capacity device(s).

Note The partition size of the source HDD must be smaller than target capacity.



Caution

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

6.4 Skip Bad Sectors

Skip source bad sectors.

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.

6.4.1 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 "6.6.1.1 Copy Unknown", then press "OK" to save this setting.

Skip Unknown

Skip unknown format(s).

Scroll to select "6.6.1.2 Skip Unknown", then press "OK" to save this setting.

6.4.2 Erase Master

This function allows user to enable or disable the source port for sanitization.

Scroll to select "6.6.2 Erase Master", 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 "6.6.3 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 Wait HDD Time

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

Scroll to select "Device Power Up", then press "OK" to set buffer time.

6.6.5 Lock Key

This function allows users to enable or disable the 4 control panel buttons.

Scroll to select "6.6.5 Lock Key", then press "OK" to access available settings.

1 Disabled

Scroll to select "6.6.5 Lock Key >> Do NOT Lock Key", then press "OK" to save this setting.

2 Enabled

Scroll to select "6.6.5 Lock Key >> Do Lock Key", press "OK," then reboot the system to activate the setting.

**Only ▲ ▼ buttons are disabled.

[Lock Key] Do Lock Key

**To unlock keys, press "▲ ▼ OK ESC" simultaneously for 5 seconds. The screen will show "UNLOCK KEY" and return to the main menu.

UNLOCK KEY !!

6.6.6 Stop Motor Time

Set device power down buffer time prior to device disconnection. Scroll to select "6.6.6 Stop Motor Time", then press "OK" to set buffer time.

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 has to be sent back for reset if the password is forgotten.

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.