



JetMedia PW1200H M.2 PCIe SATA Duplicator and Sanitizer User Manual

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JetMedia PW1200H M.2 PCIe SATA Duplicator and Sanitizer



Product Information

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.

Privacy 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.

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

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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 “6.2 Co py 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 Device Info Displays basic information such as device model, name, capacity, etc.	
	5.2 Update System Updates system firmware through the USB port.	5.2.1 Update BIOS Updates system firmware through the source port.
		5.2.2 Create Update HDD 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 Calculates the CRC64 value of the source device.	
6. Setup	6.1 Start-up Menu Sets default function to display during 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 HDD Copies all source data, bit-by-bit.
			6.2.4 Percentage (%) Sets percentage of source capacity to copy.
	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.		
	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 aster	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 Wait HDD Time Sets device power up buffer time prior to copy, erase, etc.	

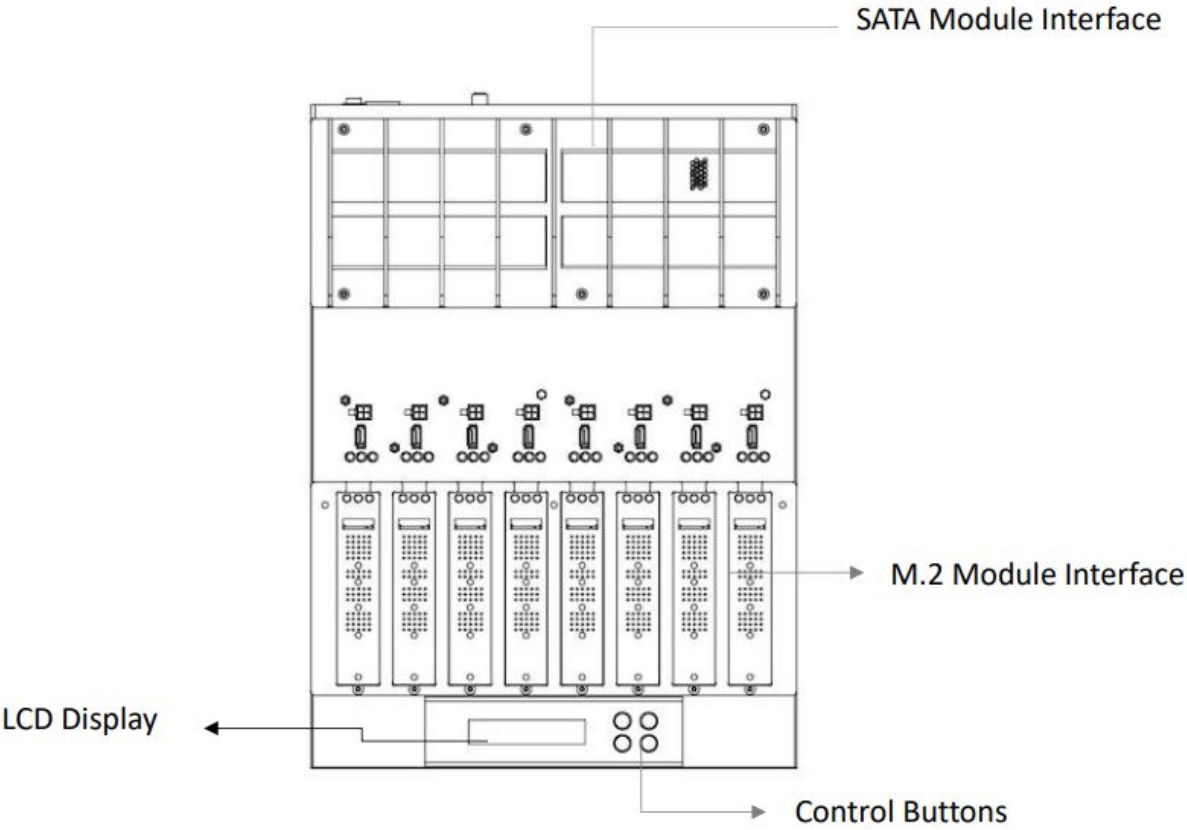
		6.6.5 Lock Key	Do Not Lock Key
			Do Lock Key Only down/up buttons are disabled. Reboot system for setting to be in effect.

		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.	
		6.6.8 Delete Disk Signature After Copy	No
			Yes Do not copy the disk signature onto target devices.
		6.6.9 PCIe Speed Sets data transmission speed.	
		6.6.10 Target Tolerance Sets the capacity tolerance range between the source and target. The default setting is “No limit”.	
		6.6.11 Clean SSD Before Copy	No The default setting is “No”.
			Yes
		6.7 Restore Defaults Reinstates manufacturer settings.	
		7.1 Today’s Log Report Outputs today’s log data.	
		7.2 Recent Log Report Outputs recent log data.	

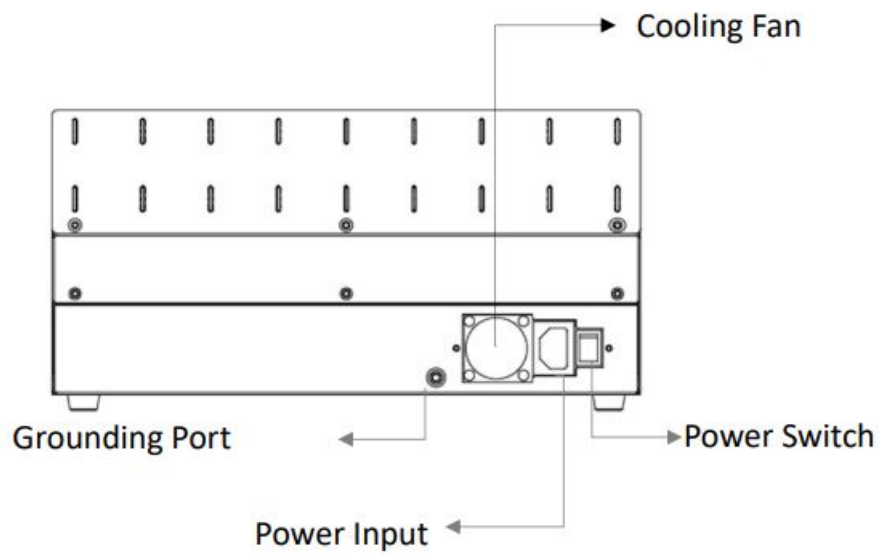
7. Log Manager (<i>Available in H Series)</i>	7.3 Custom Log Report Outputs a set period of log data.	
	7.4 Advanced Function Default password: 123456	7.4.1 Clear All Logs Clear all log records.
		7.4.2 Password Setup Allows password change.
		7.4.3 Adjust Time/Date Change time and date.
		7.4.4 Add Watermark at text File Creates a watermark on the log report.

Product Overview

Front View



Back View

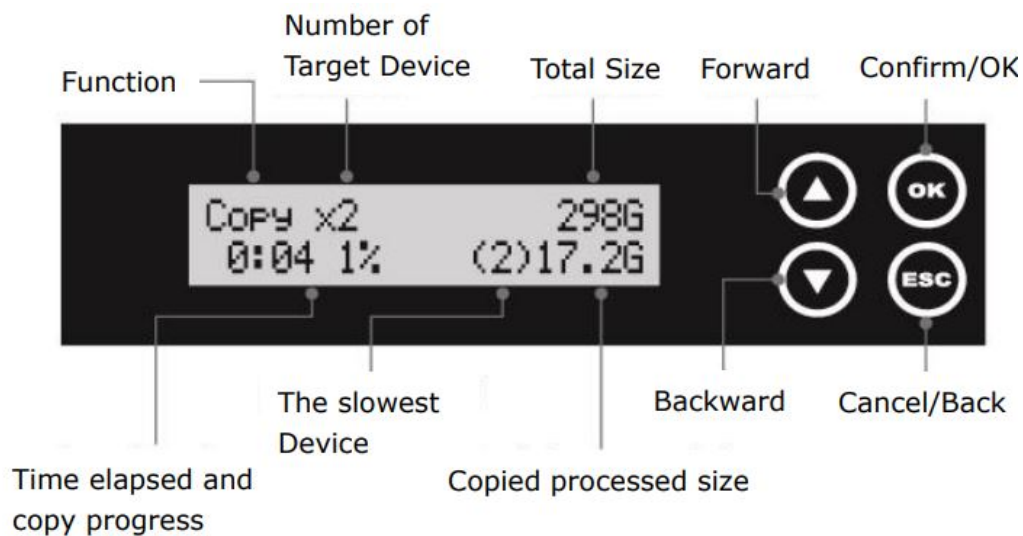


LED Status



- **Yellow:** Powered
- **Green:** Pass
- **Red:** Fail

LCD Configuration



Functions

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 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.

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.

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.

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 “Erase Master” to enable source port erasing.
- **Step 2:** Enter function “4. Erase”
 - Scroll to select “4. Erase”, then press “OK” to view the 5 submenus.

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.

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.

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.

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.

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.

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.

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.

System Update

There are 2 system update methods.

1. Through USB port.

- **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.
 - Ensure that the device does not have any bad sectors.
- **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.

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.

1. Through Source port.

- **Step 1:** Prepare a device for update.
 - Connect a device to the source port. Scroll to select "5.2.2 Create Update HDD", then press "OK" to start the format process. This will format the device to a 2GB FAT32 Partition.
- **Step 2:** Download Firmware.
 - Connect this device to PC. Download the latest firmware provided by supplier's technical support, unzip the BIOS firmware, then save it to the root directory in the device.
 - **Note:** Ensure that the device does not have any bad sectors.
- **Step 3:** Proceed to update firmware.
 - Connect this device to the source port. 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.

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.

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.

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.

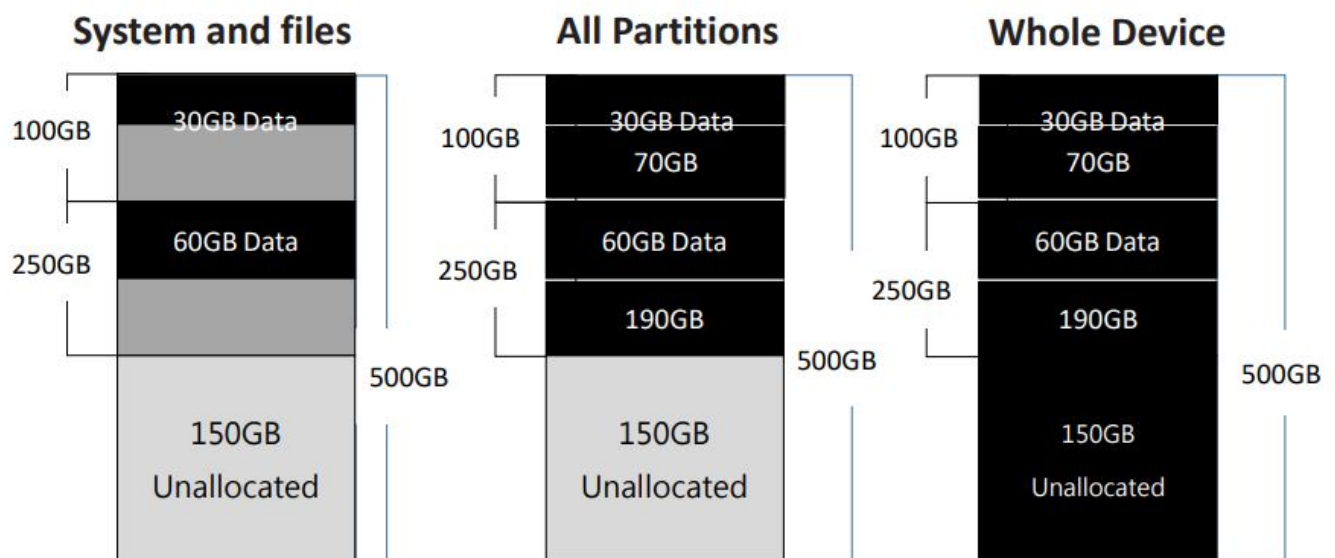
Start-up Menu

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

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



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.

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

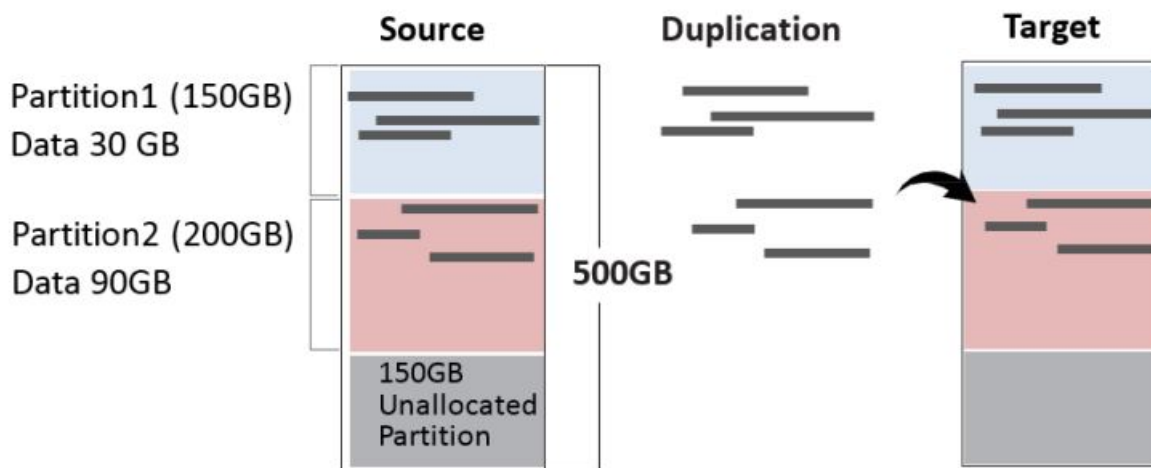
Copy and Compare Preparations

Please consider the following settings before proceeding with copy:

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

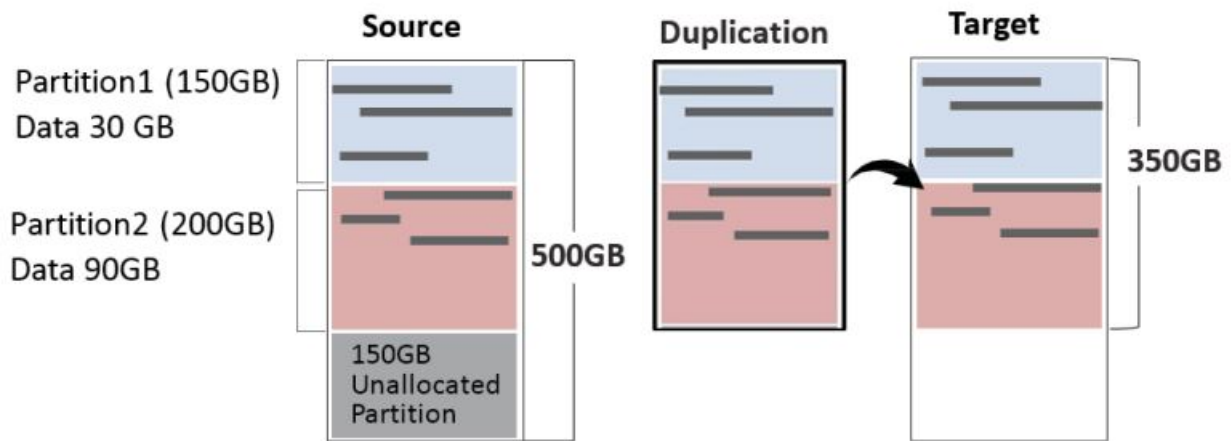
Using appropriate copy modes can greatly reduce operation time and increase efficiency. There are four copy modes with different copy methods.

System and Files



- Copies data and skips empty space. Only supports standard formats.
- Scroll to select “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.

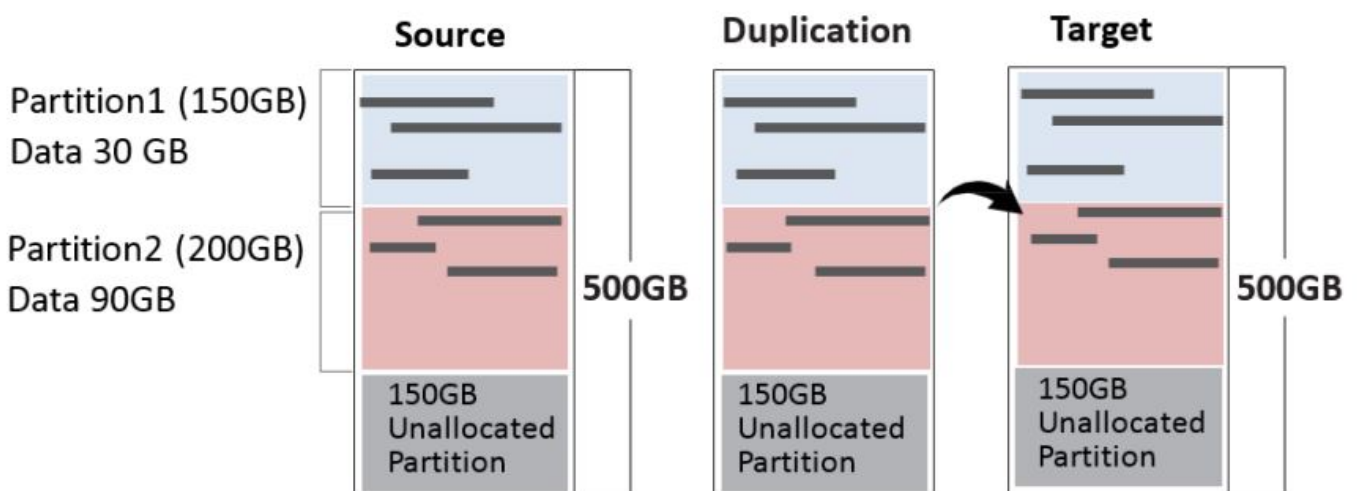
All Partitions



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

- 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.

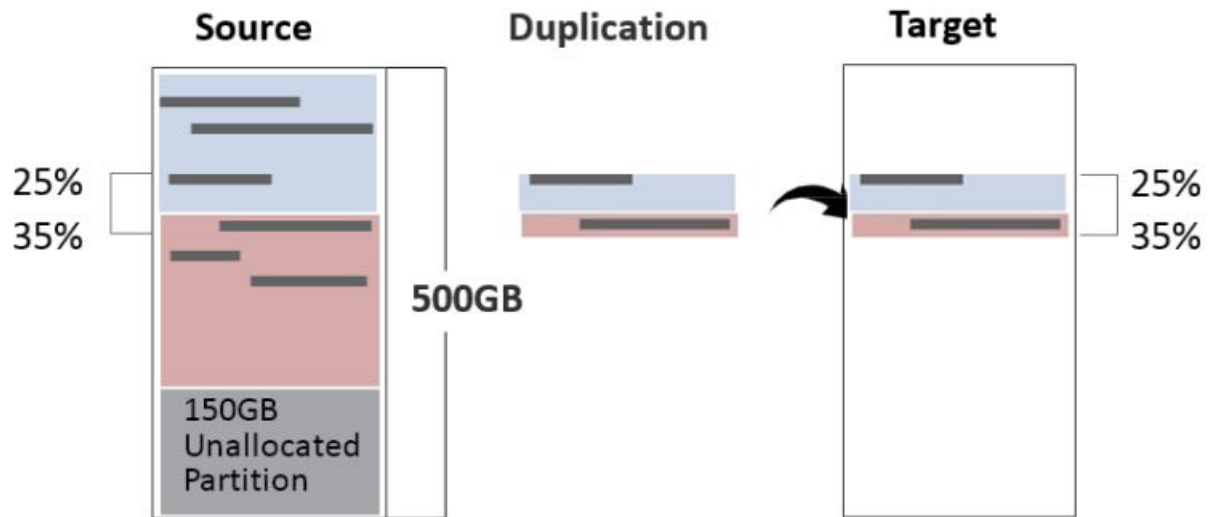
Whole HDD



All 500GB of data will be copied.

- 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.

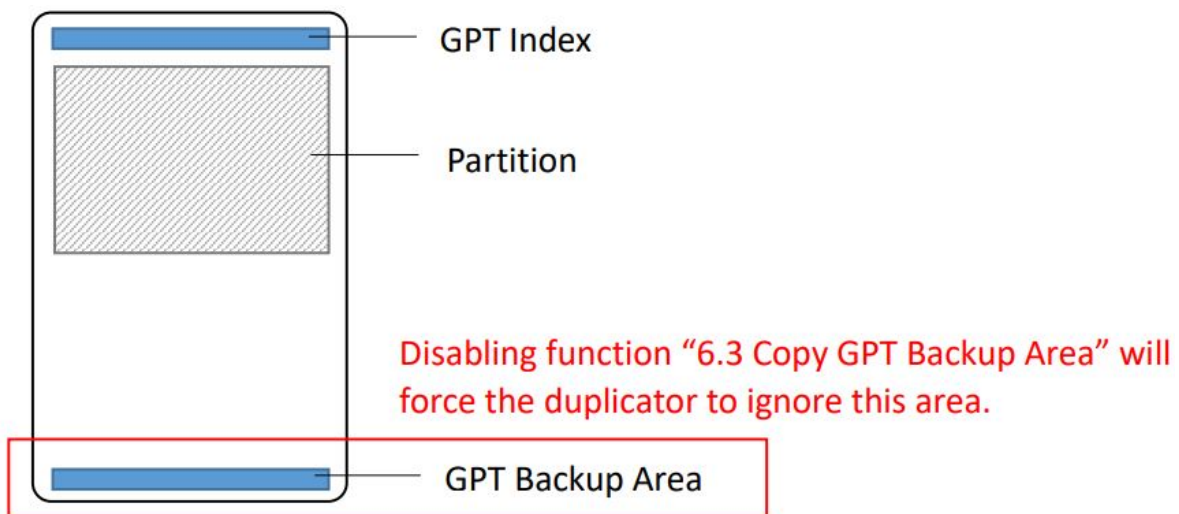
Percentage (%)



Only copies the selected area.

- Select percentage of source capacity to copy.
- Scroll to select “6.2.4 Percentage”, then press “OK” to save the copy method.

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 the 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.

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.

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

Language

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

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.

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.

Erase Master

- This function allows user to enable or disable the source port for sanitization.
- Scroll to select “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.

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.

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.

Lock Key

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

1. Disabled

- Scroll to select “Lock Key >> Do NOT Lock Key”, then press “OK” to save this setting.

2. Enabled

- Scroll to select “Lock Key >> Do Lock Key”, press “OK,” then reboot the system to activate the setting.

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.

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.

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.”

PCIe Speed

- Sets data transmission speed at “Normal” or “Low Speed.”

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.

Clean SSD Before Copy

- Sets to clear SSD before copy function. The default setting is “No”.

Restore Defaults

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

Log Manager (Available in H Series)

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

Log Report Diagram

Job: COPY

Time Start: 2018-10-12 11:46:21
End: 2018-10-12 11:46:28

Background information of this log report

Source HDD Model: Samsung SSD 950 PRO 512GB
Version: 1B0QBXX7
Serial Number: S2GMNX0H713706A
Capacity: 476.9GB(1000215216 sectors)
Data Size: 1855.4MB(3799864 sectors)
Copy Area: System and Files
CRC-64-ECMA-182: F4F1D22524F48FDF

Source device Info.

Quantity Total: 1
Pass: 1
Fail: 0

Result

[Pass Record]

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
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

S.M.A.R.T Info.

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 efficiently running.

Note

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

1. Export Today's Log Report

- Export today's log report via USB port to a USB drive.

2. Export Recent Log Report

- Exports a recent log report (1-28 days) via USB port to a USB drive.

3. Export Custom Log Report

- Exports a specific time period's log report via USB port to a USB drive.

Today's Log Report

- Outputs current day log report
- Scroll to select "7.1 Today's Log Report", then press "OK" to output log report to a USB drive.

Recent Log Report

- Outputs recent log report
- Scroll to select “7.2 Recent Log Report”, then press “OK” to output log report to a USB drive.

Custom Log Report

- Outputs recent log report
- Scroll to select “7.3 Custom Log Report”, then press “OK” to output log report to a USB drive.

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

Clear All Logs

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

Password Setup

- 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.

Adjust Time/Date

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

Add Watermark to text File

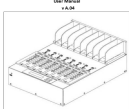
- Creates a watermark on the log report. The log report can be checked by software (iSecuLog.exe) to prevent modifying.

Note: Contact our technical team for details.

Specifications subject to change without notice.

Documents / Resources

Auto-detect Dual-interfaces
M.2/SATA SSD Duplicator



[JetMedia PW1200H M.2 PCIe SATA Duplicator and Sanitizer](#) [pdf] User Manual
PW1200H M.2 PCIe SATA Duplicator and Sanitizer, PW1200H, M.2 PCIe SATA Duplicator and Sanitizer, SATA Duplicator and Sanitizer, Duplicator and Sanitizer, Sanitizer