1 to 1 Standalone Hard Drive Duplicator and Eraser

SATDUP11

*actual product may vary from photos

DE: Bedienungsanleitung - de.startech.com
FR: Guide de l'utilisateur - fr.startech.com
ES: Guía del usuario - es.startech.com
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Manual Revision: 07/06/2018
FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Product Diagram

Front View

1. Display Screen
2. Navigation buttons
3. OK button
4. Esc button
5. SATA HDD source port
6. SATA HDD Target port

Rear View

1. Power Switch
2. Power Adapter Port
Introduction

Packaging Contents

- 1X – HDD Duplicator/Eraser
- 2X – SATA Cables
- 1X – Power Adapter
- 3X – Power Cords (NA, UK, EU)
- 1X – Instruction Manual
- 2X – HDD Pads

**WARNING!** Hard drives and storage enclosures require careful handling, especially when being transported. If you are not careful with your hard disk, lost data may result. Always handle your hard drive and storage device with caution. Be sure that you are properly grounded by wearing an anti-static strap when handling computer components or discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds.
Hardware Setup

1. Ensure the power switch is set in the off position. Connect the included power adapter from an available AC power outlet to the Power Adapter Port on the back of the SATDUP11.

2. Using an included SATA Cable, attach the HDD you would like to duplicate to the source port. (SATA port on the left identified as source, see below).

3. Using an included SATA Cable, connect the HDD you would like to have overwritten, or erased to the target port. (SATA port on the right identified as source, see below)

**Note:** For added protection, and heat insolation the source and target drives can be placed on included HDD Pads.

**WARNING!** Any Data remaining on the target drive will be over written.

4. Press the power switch to the “On” position, the SATDUP11 is now ready to use.
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<td></td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Hardware Operation

1. Copy

The copy function copies data from the source HDD to the target HDD. Please ensure you have selected your desired copy mode before executing the copying process. Refer to function [6.1 Copy Area] for details.

**Note:** By Default quick copy mode “System and Files” is selected.

**Copy Process**

<table>
<thead>
<tr>
<th>Copy</th>
<th>2047M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copied Time</td>
<td>0:26</td>
</tr>
<tr>
<td>Progress %</td>
<td>50%</td>
</tr>
<tr>
<td>Data</td>
<td>1037M</td>
</tr>
</tbody>
</table>

**Copy Result**

<table>
<thead>
<tr>
<th>Pass</th>
<th>0:58</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Bad Sector!</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The Default setting is the quick copy mode “System and Files”.

**Copied Time**

<table>
<thead>
<tr>
<th>Copied Progress %</th>
<th>Total Data Capacity</th>
<th>Copied Data Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>50%</td>
<td>2047M</td>
<td>1037M</td>
</tr>
</tbody>
</table>

**Copy Process**

<table>
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<tr>
<th>Copied Time</th>
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<th>Copied Progress %</th>
</tr>
</thead>
<tbody>
<tr>
<td>0:26</td>
<td>2047M</td>
<td>1037M</td>
<td>50%</td>
</tr>
</tbody>
</table>

**Copy Result**

<table>
<thead>
<tr>
<th>Pass</th>
<th>0:58</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Bad Sector!</td>
<td></td>
</tr>
</tbody>
</table>
2. Compare
The Compare function can be used after a duplication is finished to confirm the data on the target HDD is identical to the source HDD.

3. Copy & Compare
The Copy & Compare function executes a duplication and then automatically executes the compare function immediately afterwards.

4. Erase

**WARNING!** Any data remaining data on any drive connected to a designated erase port will be overwritten. Please back up all data before performing any Erase function.

The Erase function allows for three different types of drive erasing: Quick Erase, Full Erase, and DoD Erase. Select your desired mode to clear all data from the drive. Refer to functions [4.1 / 4.2 / 4.3] for details.

Notes:
- You can also use the source port and delete two drives simultaneously. Refer to function [6.3 Erase Master] for details. By default the Source port is disabled as an erase port.
- The Erase function can be stopped while in process by pressing the [ESC] for 3 to 4 seconds. However, any data that has already been deleted including the drive partition table cannot be recovered.

4.1 Quick Erase
The Quick Erase function only erases the HDD index table. It is the fastest way to erase a HDD.

4.2 Full Erase
The full Erase function performs a single pass overwrite which will erase all sectors on the HDD. It will take a longer time than quick erase.
4.3 DoD Erase

DoD Erase is a three pass overwrite erase which erases all sectors of the HDD. It can guarantee the data was fully deleted by erasing the HDD bit for bit three times. DoD Erase will damage the data on the HDD, so please make sure you have backed up all important data before using this function.

Steps of DoD Erase

The system will start executing DoD Erase after pressing [OK].

Erasing.

Erasing 1 HDD

DoD Erase 2:05

[02] 465G
Erase[00] 4818M

The system will show the result after finishing.

DoD Erase

Pass: 5 Fail: 0
4.4 DoD Erase Comp
DoD Erase & Compare performs a standard DoD Erase as described above, then performs a sector by sector check to verify that the drive has been erased. As it does the most thorough Erasing job, it is also takes the most time to complete.

**The erasing time of DoD Erase mode is three times longer than Full Erase mode, and the time of DoD EraseComp is four times longer than Full Erase mode.**

5. Utility
From the Utility options you can access different administrative configurations and information. See the list below outlining the details of each option. Refer to functions [5.1 / 5.2 / 5.3 / 5.4 / 5.5] for details.

5.1 Show Disc Info.
The Show Disc Info. function displays information about the HDD attached to the source port. Refer to functions [5.1.1 - 5.1.9] for details.

5.1.1 Model Number
The Model Number function shows basic information about the HDD connected to the source port.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model: WDC WD</th>
</tr>
</thead>
<tbody>
<tr>
<td>500BPVT-00HXZT3</td>
<td></td>
</tr>
</tbody>
</table>

[Disc Info]

1. Model Number
5.1.2 Version of Firmware
The Version of Firmware function displays the HDD firmware version of the HDD connected to the source port.

<table>
<thead>
<tr>
<th>Disc Info</th>
<th>Model: WDC WD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Model Number</td>
<td>500BPVT-00HXZT3</td>
</tr>
</tbody>
</table>

5.1.3 Serial Number
The Serial Number function displays the serial number of the HDD connected to source port.

<table>
<thead>
<tr>
<th>Disc Info</th>
<th>Serial NO:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Serial Number</td>
<td>WD-WXB1A91M3998</td>
</tr>
</tbody>
</table>

5.1.4 Device Power Cycle
The Device Power Cycle function displays the number of times the HDD has been turned on and off.

<table>
<thead>
<tr>
<th>Disc Info</th>
<th>Device Power Cycle</th>
<th>5. Device Power Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[Device Power Cycle]</td>
<td>99</td>
</tr>
</tbody>
</table>
5.1.5 Power-on Hours
The power-on Hours function displays the total number of hours the HDD has been powered-on.

6. Power on Hours

18

5.1.6 Reallocation Event Count
The Reallocation Event Count function displays the number of reallocating events. A reallocation event occurs when the HDD fails to save data. Once this occurs the HDD will need to redefine the location to store the data causing a higher amount of drive read/write errors.

7. Reallocation Event Count

0

5.1.7 Off-Line Scan Uncorrectable
The Off-Line Scan Uncorrectable Sector Count function displays the volume of sectors that are uncorrectable when scanned off-line. The higher the uncorrectable sector volume is, the more seriously the HDD is damaged.

8. Off-Line Scan Uncorrectable

0
5.1.8 Seek Error Rate
The Seek Error Rate function displays the rate of error that occurs while searching for data. This represents the rate of damaged data that is stored on your HDD.

5.1.9 Temperature
The Temperature function displays the current HDD temperature.

5.2 Update System
5.2.1 Update Bios
If an update to the device firmware is available on the StarTech.com product page, this option can be used to update the device. The steps below outline the steps for executing a system update.

**Note:** A firmware update should only be done if recommend by StarTech.com. The below steps should only be performed by advanced users. Please contact StarTech.com Technical Support for assistance.

a) Format a blank hard drive with a 10GB FAT32 partition.
b) Download the firmware file from the StarTech.com Website, and place the file on the main directory of the new partition.
c) Connect the hard drive to the source port of the SATDUP11.
d) Using the Navigation Buttons locate “5.2.1 Update BIOS” and press ok.

The update will take place, and the on screen display will alert you upon completion.
5.2.2 Create Update HDD
Formats the drive connected to the source port of the STADUP11 for BIOS update (10GB FAT32 partition).

5.3 System Info.
The System info function displays duplicator information such as model name and firmware version.

KD25/35HS
Ver: 2.31.0

5.4 Read Speed
The Read Speed function measures the reading speed of the HDD by reading the entire drive.

R 2:30 465G
89.0 M/S 12.8G
5.5 Write Speed

**WARNING!** Any Data remaining data on any drive connected to a designated erase port will be over written. Please back up all data before performing any Write speed function.

The Write Speed function measures the write speed of the HDD by writing data to the entire drive.

![Content will be erased. Confirm?]

5. Write Speed

<table>
<thead>
<tr>
<th>W 1:08</th>
<th>465G</th>
</tr>
</thead>
<tbody>
<tr>
<td>89.6 M/S</td>
<td>4423M</td>
</tr>
</tbody>
</table>

6. Setup

From the Setup function you can access different advanced configurations. See the list below outlining the details of each option. Refer to functions [6.1 – 6.9] for details.

6.1 Copy Area

The Copy Area function enables you to adjust the mode in which the hard drives are copied. Refer to functions [6.1.1 / 6.1.2 / 6.1.3] for details.

1. Select “6.1 Copy Area” using the navigation buttons.

2. From the “Copy Area” menu you can select your desired method of hard drive duplication. See the list below outlining the details of each option.
6.1.1 System and Files

It will copy source HDD’s System and Files instead of the whole HDD. The system will analyze the source HDD and identify the data area to copy. The copy will be completed as long as the source HDD data is within the size of the target HDD.

Note: System and Files only supports FAT, NTFS, and LINUX(ext2/ext3/ext4).

6.1.2 All Partitions

This mode will copy all of the partitions bit for bit including the free space. It can support all of the formats.
6.1.3 Whole HDD
This mode will copy the entire HDD, regardless of the content, format, partition, or free space, and it will take much more time to duplicate the source HDD completely.

6.2 Skip Error
The Skip Error function allows you to define a number of acceptable sector errors during the duplication process in the event that the hard drive has bad sectors on it.

6.3 Language
The Language function allows you to set is to set the language the menu is displayed in.
6.4 Advanced Setup

From Advanced Setup you can adjust HDD Wait Time, and lock the keys, see details below.

a) Select “6.9 Advanced setup” using the navigation buttons.

b) From the “Advanced” menu you can select your desired application. See the list below outlining the details of each option.

**Note:** The number **6.9** at the beginning of each option below represents the “Advanced Setup” heading on the main menu, the numbers: .1, .2, .3, etc. indicate the option within the “Advanced Setup” sub menu.

6.4.1 Unknown Format

The Unknown Format function allows you to set how the device manages unknown HDD area.

6.4.2 Erase Master

The Erase Master function can be enabled if you would also like to use the Source Port as an erasing port.

6.4.3 Erase Pattern

This Erase Pattern function allows you to define the setting used to select different erase methods.

6.4.4 Wait HDD Time

This is to set auto start time after plugging in HDD.

6.4.5 Transfer Rate

The Transfer Rate function allows you to select the best transfer rate from UDMA 2 to UDMA 4 for your HDD duplication progress. If you are not confident on the HDD quality or you find a high failure rate on copy or compare, it is recommended to slow down the UDMA mode.

6.4.6 Stop Motor Time

When the system finishes function executing, the motor won’t stop running immediately. This function is used to set the time of motor stopping after finishing function executing.

6.5 Restore Default

The Restore Default function sets the duplication setting back to the original configuration.
Technical Support
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For the latest drivers/software, please visit www.startech.com/downloads

Warranty Information
This product is backed by a two year warranty.
In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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