

**ACT-HDC15SPD**  
**1 to 5 HDD Duplicator**

**User's Manual**

— Ver: 1.00 —



**Attention:**

It takes over 5 seconds to  
power on after shutdown  
otherwise the system may  
operate abnormally.

**ACT**

ACT-POWER COMPUTER TECHNOLOGY CORP.

<http://www.honetek.com>

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ACT's ACT-HDCSPD HDD Duplicator is used for copying whole hard driver .

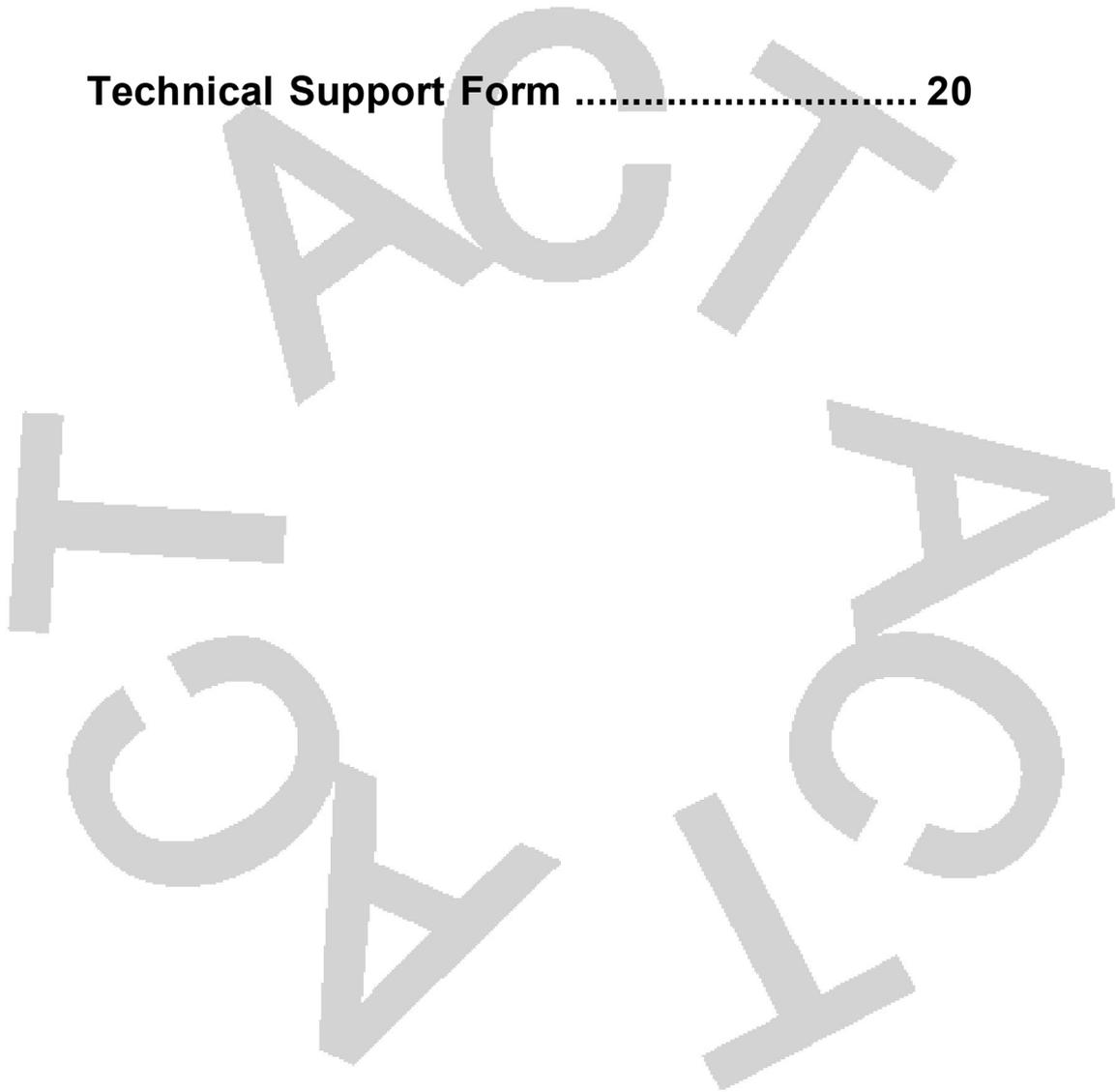
ACT's Duplicator only supports legal backup operation.

ACT Corp. is not responsible for the user's illegal actions.

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## Chapter 1 Introduction

### 1.1 Overview

ACT-HDC15SPD is a 1-to-5 standalone Duplicator.

Simply through the LCD and 4 buttons on the panel, you can copy any kind of files on the hard drive easily and quickly. It is fit for companies to backup data, or for PC assemblers to do legal production.

Usually if you want to backup data or OS on many hard drives, you have to boot the computer, and do the job via Ghost or other recording programs. It takes time to learn how to use the software and more time to duplicate. In view of this, ACT has launched ACT-HDC15SPD.

### 1.2 Features

- Standalone SATA to SATA HDD copy controller
- Independent device without extra hardware or software
- Support high-speed 1-to-5 HDD duplication
- User-friendly interface with LCD showing messages
- Optional functions for application

### 1.3 Specifications

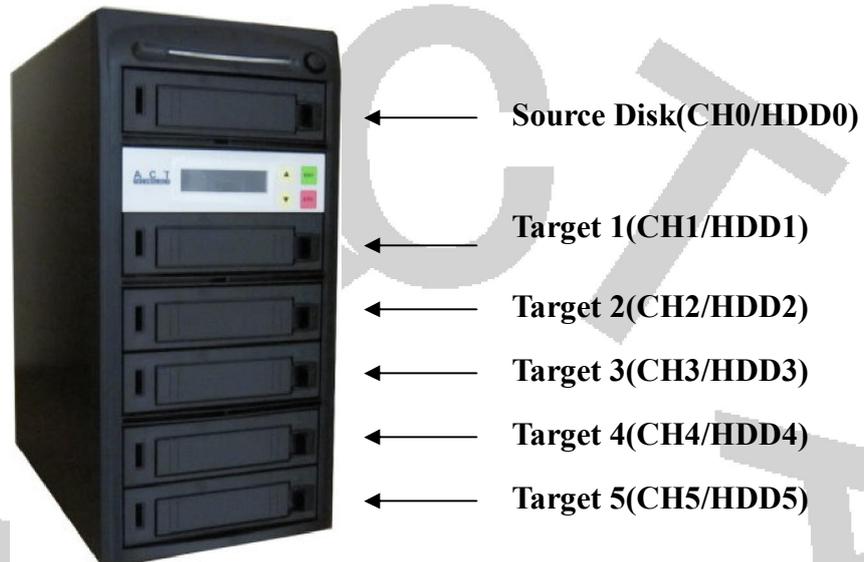
- Jmicro SOC Engine
- 64 MB SDRAM memory
- One/ Five independent SATA channels
- 2 × 16 text mode of LCD
- 4 membrane buttons on the panel
- 512K bytes flash memory
- Supports firmware update from DVD-ROM

■	Power	Voltage: 115-230
■	Environment	Operation: 0°C to 60°C
■		Non-operation: -20°C to 85°C
■	Humidity	15% to 90%

## Chapter 2 Installation

### 2.1 The Appearance

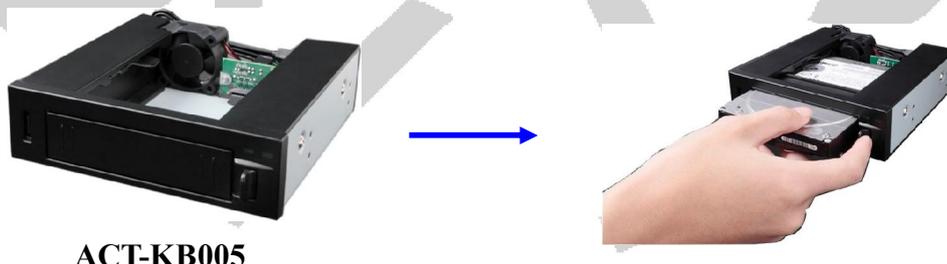
The appearances of ACT-HDC15SPD is as the following figures show.



#### 2.1.1 Accessories(option)

##### 1. ACT-KB005

ACT-KB005 is a hot swap hard disk caddy. It fits in one 5.25" drive bay and supports all your 3.5" SATA HDDs.



**ACT-KB005**

##### 2. ACT-ACC882SP

Converts your 2.5" SATA HDD to a 3.5" SATA hard drive , for 3.5" SATA drive bay usage.



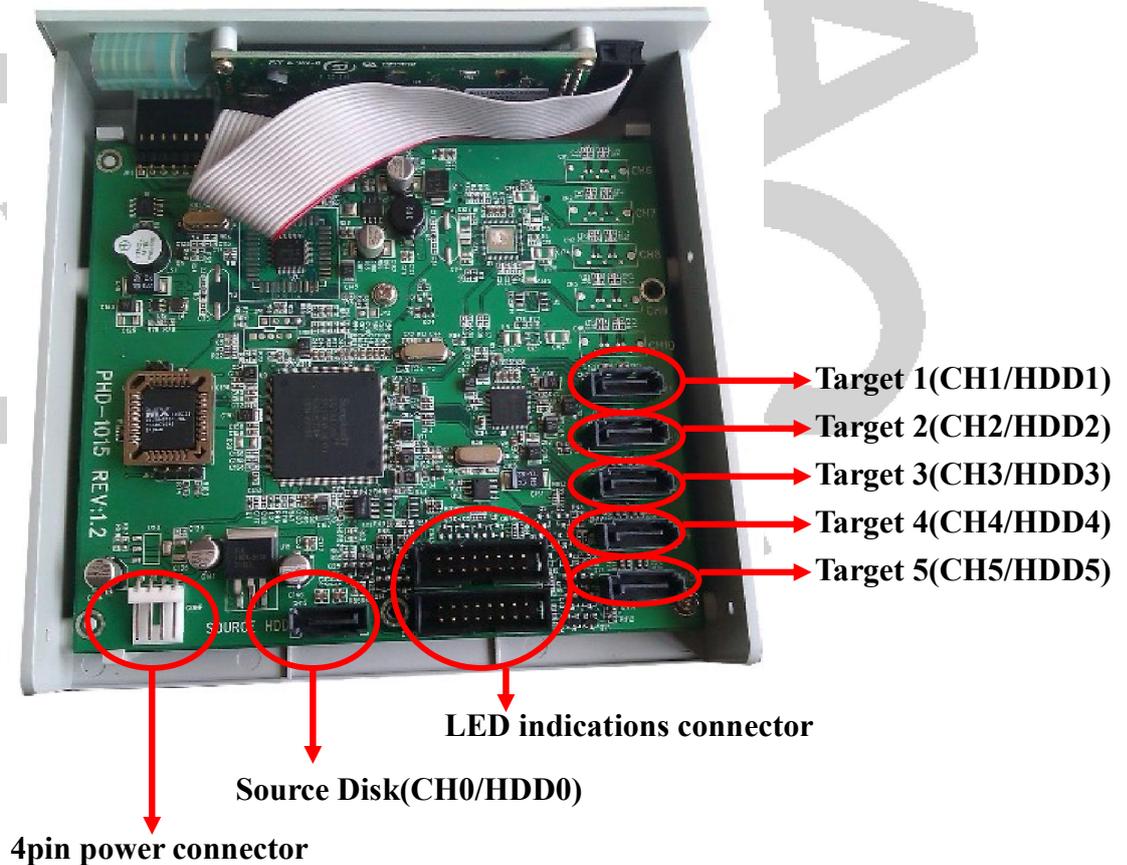
### 3. ACT-ARS3022

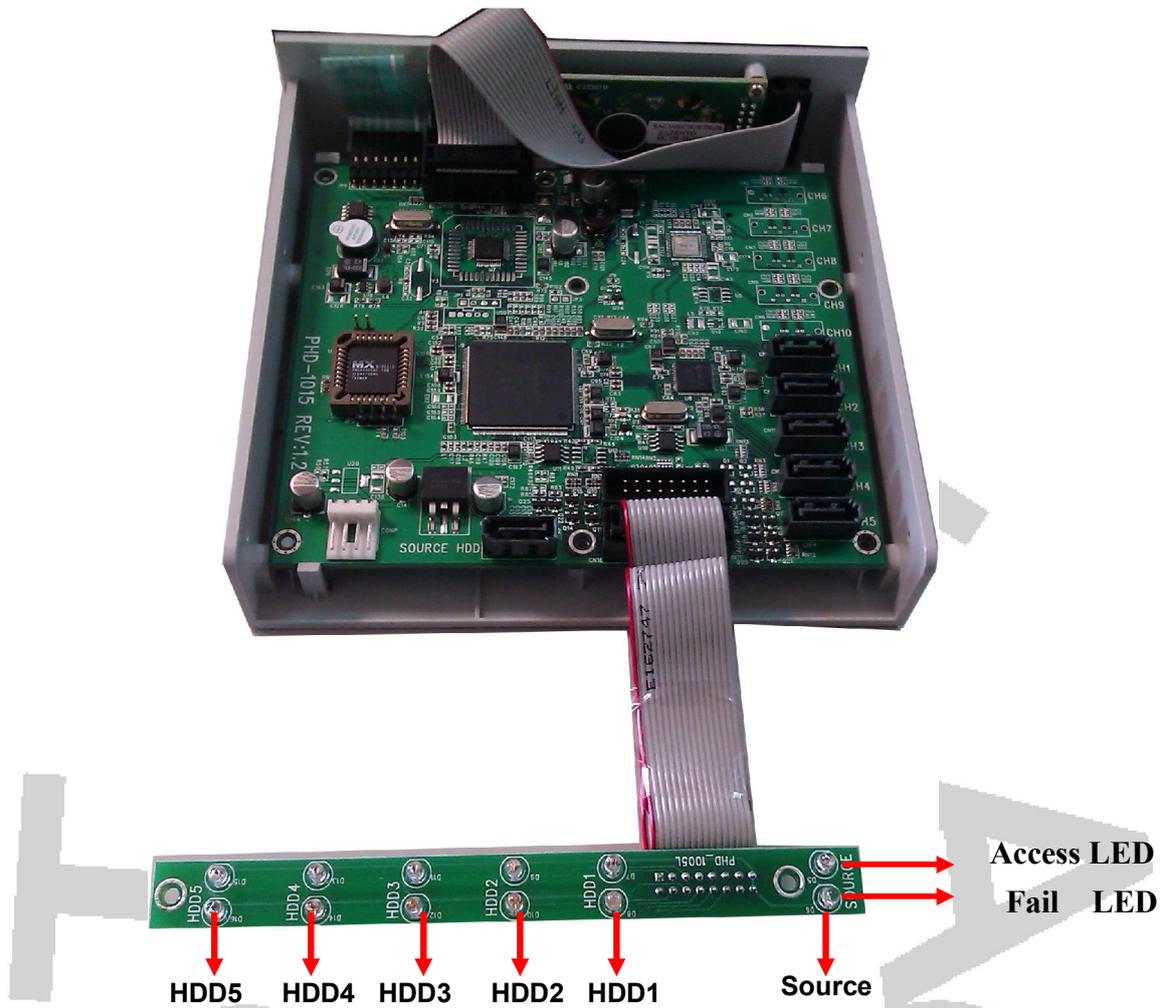
ACT-ARS3022 is an internal SATA to SATA RAID1 subsystem. Using two 2.5" SATA hard disks mounted on one mini 3.5" form factor drive bay.



After joining 5 ACT-ARS3022, ACT-HDC15SPD will be used a 1-to-10 standalone Duplicator for 2.5" SATA HDD copying.

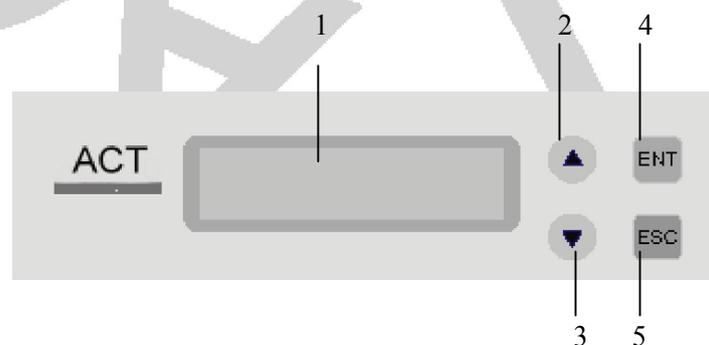
## 2.2 ACT-HDC15SPD Controller Board Layout





## Chapter 3 The Buttons & LCD

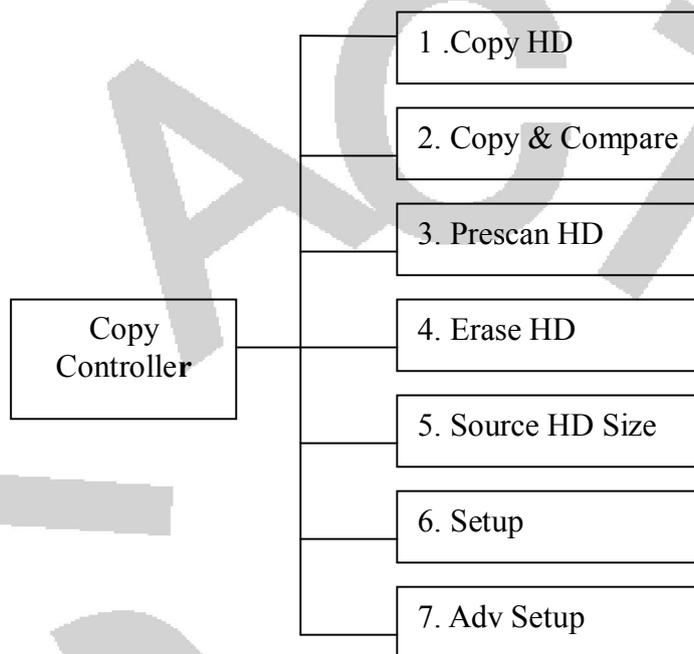
There are four buttons and an LCD on the panel of ACT-HDC15SPD.



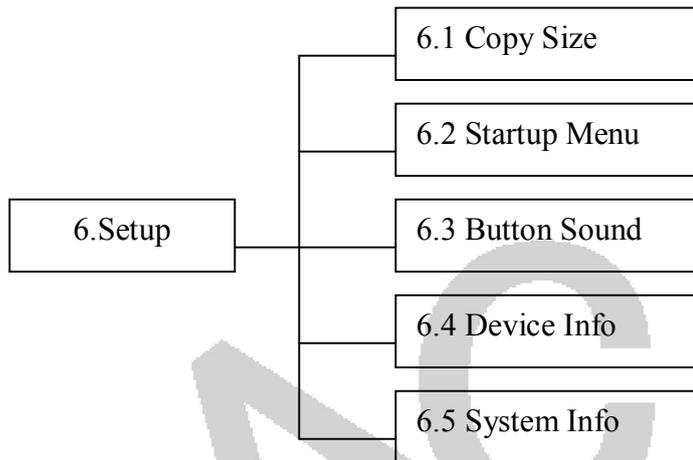
1. It shows all functions and messages.
2. It is used to scroll up through functions or menus.
3. It is used to scroll down through functions or menus.
4. It is used to execute a selected function.
5. It is used to cancel a selected function.

## Chapter 4 Functions

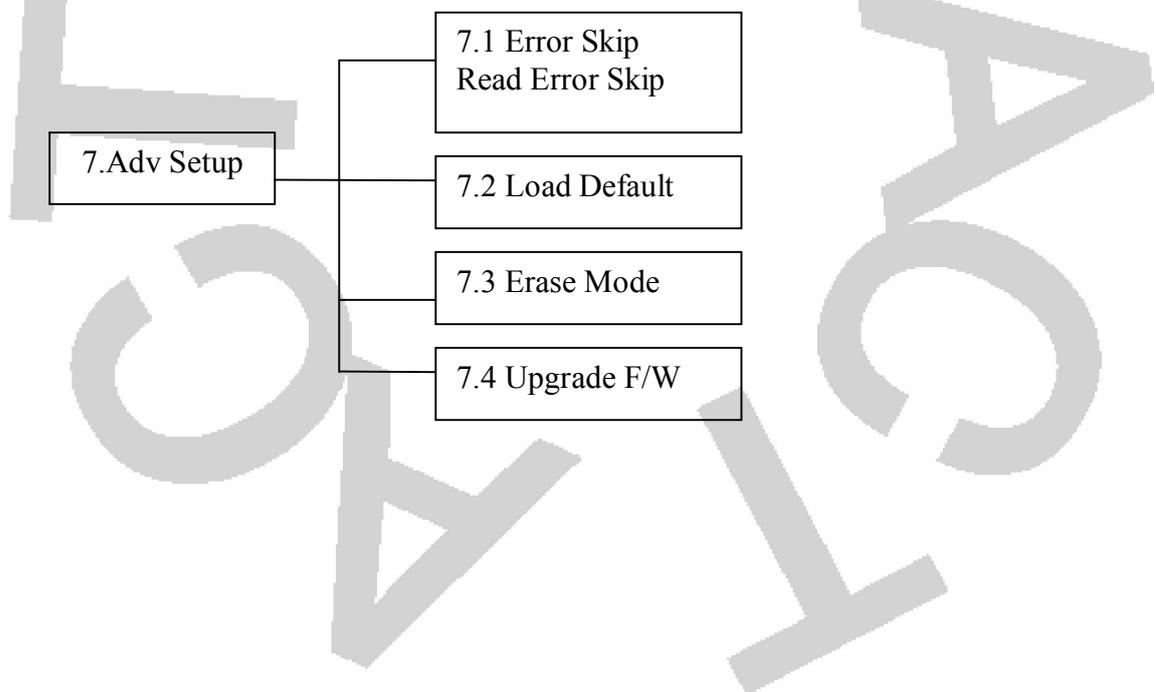
There are 7 major functions in ACT-HDC15SPD , and there are subfunctions in Function 6 and Function 7 as the figures show .



In Function 6 there are 5 subfunctions



In Function 7 there are 4 subfunctions



## 4.1 Copy HD

Function 1 Copy HD copies data directly from the source hard disk to the target hard disk . Before copying be sure that the capacity of the target hard drive is equal to or larger than that of the source one.

Select function 1.

**1. Copy HD**

Press **[ENT]** to start copying. After ACT-HDC15SPD detects the hard drive the LCD will show the copying information as follows

**Copy-100MB/s    0%**  
**0/465G            01 : 9**

When copying is in work, GB . time and the percentage of completion will increase.

The copying speed, capacity and time are different from one source hard drive to another. When copying comes to an end, the LCD will show the results as follows.

**1. Copy HD**  
**OK : 05    Fail : 0**

If the target hard disk has a copy failure then the LCD will show the results as follows

**1.Copy HD**  
**OK : 04    Fail : 1**

Press **[ESC]**

**Fail channel**  
**2**

Channel 2(HDD2)copying Failure

## 4.2 Copy & Compare

Function 2 Copy & Compare is to copy first and then compare actually. Compare is to make a comparison between the source hard disk and those of the target hard disks..

Select function 2.

**2. Copy & Compare**

Press **[ENT]**

**Copy- 100MB/s 1%**  
**5/465G 00:50**

After copying finishes then to compare automatically, The LCD will show the comparison information as follows.

**Comp- 16MB/s 1%**  
**5/465G 00:50**

When comparison comes to an end, the LCD will show the result as follows.

**Copy&Comp**  
**OK: 5 Fail: 0**

## 4.3 Prescan HD

Function 3 Prescan HD is to scan if the source hard drive can be read correctly, and to test the reading speed too.

Select function 3.

**3. PreScan HDD**

Press **[ENT]** to Pre Scan. The LCD will show the scanning information as follows.

**Scan- 100MB/s 1%**  
**5/465GB 00:50**

When scanning finishes and the source hard drive can be read correctly, the LCD will show the result as follows.

**Scan**  
**OK: 1 Fail: 0**

#### 4.4 Erase HD

Now press **【ESC】** and **【▼】** to enter the following figure. This is to erase the data of a hard drive quickly.

**4. Erase HD**

Press **【ENT】** .

**Erase Tgt HD?  
Enter:Yes ESC:No**

Press **【ENT】** .

**Confirm again?  
Enter:Yes ESC:No**

Press **【ENT】** to select Yes. After completion, the following figure will appear.

**Quick Erase  
OK**

#### 4.5 Source HD size

Function 5 Source HD size is to display the capacity of the source hard drive.

Select function 5.

**5. Source HD size**

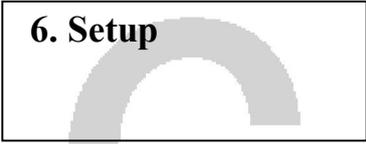
Press **【ENT】** . The LCD will show the information as follows.

**Total: 465GB  
LBA:976773168**

## 4.6 Setup

Function 6 Setup lets you change a configuration. Once you change it, remember to press ENT to save. However, it is suggested to use defaults for the optimal operation. This function includes 5 subfunctions: Copy Size, Startup Menu, Button Sound, Device Info, and System Info as the figure on page 10 shows.

Select function 6.



6. Setup

### 4.6.1 Copy Size

This option is used to specify the size of the source hard disk for simplifying further copying operations.



6- 1. Setup  
Copy Size

Press **【ENT】** and the LCD will display a detailed list of options as shown below



Copy Size  
465GB(Max)

Use the Down arrow keys to choose different copy sizes. The system will offer their corresponding capacity so the user can specify the amount to copy from the source hard disk. Press ENT to confirm and save the changes.

## 4.6.2 Startup Menu

This function lets you select any one of the functions except Setup as the first item appearing on the menu whenever you turn on the copy controller.

**6- 2. Setup  
Startup Menu**

Press **【ENT】** . The default is Copy HD. You certainly can select any other function as the first item, but remember to press **【ENT】** .

**Startup Menu  
1.Copy HD**

## 4.6.3 Button Sound

This function lets you decide whether to produce the sound of a button when you press it or not.

**6- 3. Setup  
Button Sound**

Press **【ENT】** . The default is On. You can press **【▼】** to select Off.

**Button Sound  
On**

#### 4.6.4 Device Info

This function is to display the information of all hard drives connected to ACT-HDC15SPD.

**6- 4. Setup  
Device Info**

Press **[ENT]** .

**Total Ch6  
Channel :0**

Press **[▼]** .

**Type: Source  
Capacity 465GB**

Press **[▼]**

**Capacity 465GB  
WDC WD5000AAKS-**

Press **[▼]**

**WDC WD5000AAKS-  
WD-WMAWF03**

Press **[▼]**

**WD-WMAWF03  
Channel:1**

#### 4.6.5 System Info

This function is to display the information of the system.

**6-5. Setup  
System Info**

Press **[ENT]** .

**Vendor: ACT  
F/W ver:1.0.01**

## 4.7 Adv Setup

Function 7Adv Setup lets you change the system configuration. It includes Read Error Skip, Load Default, Erase Mode and Update Firmware, as the figure on page 10 shows.

### 4.7.1 Read Error Skip

This function sets the system to ignore any errors during the copying process. Normally if there is an error during copying a warning is displayed on the LCD. By using this function, users can also copy a HDD with errors.

**7- 1. Adv Setup  
Read Error Skip**

Press **【ENT】** to enter the following screen. By default this option is set to ON. Use the up and down buttons to enable or disable this option.

**Read Error Skip  
ON**

### 4.7.2 Load Default

Now press **【ESC】** and **【▼】**. This is to make all changed settings return to defaults.

**7- 2. Adv Setup  
Load Default**

Press **【ENT】**.

**Are You Sure  
Enter : Yes    ESC : No**

Press **【ENT】**. When default loading finishes, the LCD will show the result as follows.

**7.2 Load Default**

### 4.7.3 Erase Mode

Press **【ENT】**

**Erase Mode**  
**Quick**

Press **【▼】**

**Erase Mode**  
**Full**

### 4.7.4 Upgrade F/W

Now press **【▼】** to enter the following figure. This is to update firmware to the latest version. But you should get the version first.

**7- 4. Adv Setup**  
**Upgrade F/W**

You can get the newest firmware version from ACT by e-mail, or download it directly from the web site: <http://www.honetek.com>. Then, unzip the file but if the file is bin, you don't need to unzip. Copy the file to a blank hard disk using DiskImage.exe software utility.

Turn off ACT-HDC15SPD and connect that hard disk to its CH0(source channel). After turning on, press **【▼】** to enter 7-4 Upgrade F/W , and press **【ENT】** . The system will begin searching the new firmware, and show the message on the LCD after it finds it. Press **【ENT】** to update.

**Searching F/W---**  
**XXX/XXXXX**

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## Chapter 5 Troubleshooting

### 5.1 About LCD

After you power up ACT-HDC15SPD, if there is no display on the LCD, check if the connection of power cord is firm and the power outlet is normal.

### 5.2 About Error Messages

During Copy, Compare, etc. if you press **【ESC】** to abort, an error message will appear on the LCD. That will probably cause ACT-HDC15SPD to hang up, so you have to power on again.

### 5.3 About HDD

If a hard drive cannot read, confirm if the cable and the power are normal.

### 5.4 About Buttons

If you press any of the four buttons on the panel, but there is no response, it is perhaps that the button cannot function well. Inspect if the cables on the control board of ACT-HDC15SPD are loose.

### 5.5 About Firmware Update

If you cannot update the firmware, inspect it. Perhaps you have downloaded a wrong file. Unsuccessful firmware update may cause ACT-HDC15SPD to fail in booting. Under the circumstance, return the duplicator to distributor for repair.

**Technical Support Form**Email: [honetek@honetek.com](mailto:honetek@honetek.com)<http://www.honetek.com>

<b>Model</b>		<b>F/W Version</b>	
<b>OS Version</b>			
HDD Model			
Capacity			
Other			
Problem Description			