



35RU3 Series
2.5 & 3.5 Inch External
Hard Drive RAID Enclosure

User Manual

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Thanks for choosing ORICO!

Please read this user's manual carefully before using it!

What is in the box

1. The Product.....	1PCS
2. Data Cable.....	1PCS
3. Power Cord/Power Adapter.....	1PCS
4. The Screwdriver.....	1PCS
5. Screw package.....	2PCS
6. User Manual.....	1PCS
7. Thanks Card.....	1PCS

The Product, Accessories and Package may Optimized for Better Application or Performance. We Sincerely sorry that they may not Exactly Match with what showing in Manual and Appreciate your Please Adhere to the Original Products and Contact ORICO Customer Care Team if any Further Concern. Thank you very much.

Product Introduction

The 35RU3 series is a desktop storage external hard drive enclosure with RAID array functions. The full range is made of aluminum alloy and is durable. Fully compatible with 2.5-inch and 3.5-inch HDD/SSDs. USB3.0 output interface, the highest support 5Gbps transmission rate, and supports multiple RAID modes to meet different data storage needs of applications.

Specifications

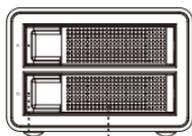
Model	3529RU3 / 3549RU3 / 3559RU3
Material	Aluminum Alloy
Output	USB3.0 Type-B
Transmission Rate	5Gbps
Data Cable	USB Type-A/M to USB Type-B/M
Compatible Drive	2.5 & 3.5 Inch SATA HDD / SSD
Supported System	Windows / Mac OS / Linux
RAID Modes	3529RU3: RAID 0, 1, SPAN, PM 3549RU3: RAID 0, 1, 3, 5, 10, SPAN ,CLONE, PM/Normal 3559RU3: RAID 0, 1, 3, 5, 10, SPAN ,CLONE, PM/Normal
Dimensions	3529RU3: 234(L)×135(W)×93.7(H)mm 3549RU3: 264.8(L)×135(W)×166.7(H)mm 3559RU3: 264.8(L)×137(W)×200.7(H)mm

Product features

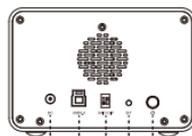
1. Aluminum alloy material, strong and durable.
2. External USB3.0 output interface, supporting up to 5Gbps transmission rate.
3. Support multiple RAID modes to meet different data storage needs of applications.
4. Supports intelligent sleep technology, energy saving and environmental protection, extend the service life of hard disk.
5. Built-in low noise, high speed cooling fan, air convection cooling duct design, to provide better heat dissipation.
6. Fully compatible with 2.5 "and 3.5" SATA HDD/SSD hard drives.
7. Free installation of drivers, support hot plug, plug and play.
8. Fully compatible with Windows/Mac OS/Linux multi-platform operating system.

Product Illustration

3529RU3



① ②



③ ④ ⑤ ⑥ ⑦

① LED Indicator

② Bay

③ Power Interface

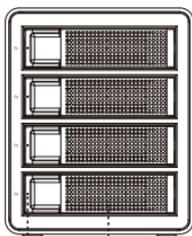
④ USB3.0 Interface

⑤ RAID button

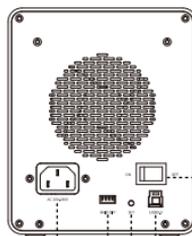
⑥ SET

⑦ Power Switch

3549RU3



① ②



③ ④ ⑤ ⑥ ⑦

① LED Indicator

② Bay

③ Power Interface

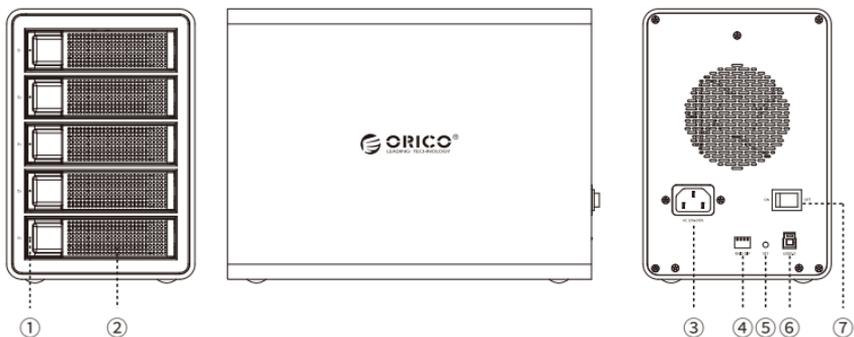
④ RAID button

⑤ SET

⑥ USB3.0 Interface

⑦ Power Switch

3559RU3



① LED Indicator

② Bay

③ Power Interface

④ RAID button

⑤ SET

⑥ USB3.0 Interface

⑦ Power Switch

Installing the hard disk

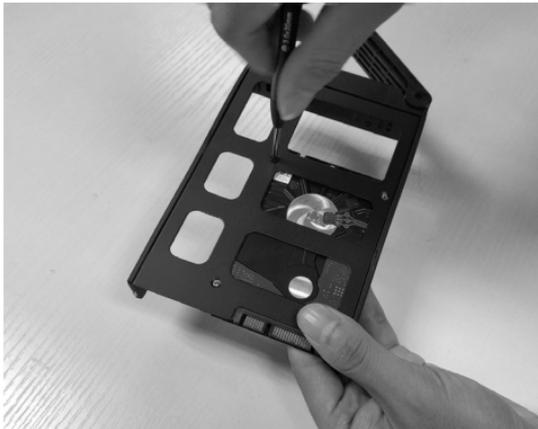
1. Push the slip buckle in the left direction, auto-pop tray handle.



2. Grab the handle and pull out the tray.



3. Install the 2.5 " /3.5" SATA HDD/SSD , secured with screws.



2.5" hard drive(bottom 4 screws fixed)



3.5" hard drive(4screws fixed on both sides)

4. Load the tray into the hard drive enclosure and complete the hard drive installation.



Set up RAID

1. About RAID mode

RAID Mode	Introduction
RAID0	It has the fastest data read speed but had no protection that all data will be lost due to one damaged hard drive, which is applicable to temporary storage and high-speed transmission for data,such as video editing and other scenes.
RAID1	Data storage is the most safe and not to be worried to lose data even if one hard drive is damaged. However, the use ratio for hard drive is just 50% ,thus it is suitable for demanding high-security scenes to store data.
RAID3 RAID5	With the both consideration of safety and maximum utilization of capacity for the data storage, only one hard drive is consumed in capacity and it is used most as RAID mode.
RAID 10	Security and the promotion of transmission performance are combined into RAID1 and RAID0, but the use ratio of hard drive is only 50% and higher demand on data safety is recommended.
PM /Normal	Each hard drive is ejected separately and the data stored hard drive can be more convenient to directly use.
SPAN / JBOD	Excellently bind multiple hard drives with different capacity hard drive, but all data will be lost due to one damaged hard drive , thus it is not recommended.
Clone	CLONE consists of at least two drives storing duplicate copies of the same data.In this mode, the data is simultaneously written to two or more disks. Thus, the storage capacity of the disk array is limited to the size of the smallest disk.

2. Note

- ① RAID mode needs two or more HDDs.
- ② Please backup all files before setting or changing RAID mode, because all files stored in HDDs in the HDD enclosure will be cleared while operating this.
- ③ Please don't change HDD bays' order under RAID mode to prevent its unstable running.
- ④ Please don't remove the HDD in the HDD enclosure under RAID mode. You should delete the hardware and exit media on the computer before removing the HDD.
- ⑤ All HDDs work independently and are displayed on computer without forming any RAID modes under Normal mode. Attention: Removing or inserting another HDD under this mode will restart the HDD enclosure and make other HDDs disconnected temporarily. So removing or adding HDD after powered off is recommended.
- ⑥ Please confirm Normal mode before setting or changing RAID mode. Or you could set PM mode in advance before setting or changing RAID mode.
- ⑦ Do not change the order of the disks under RAID mode to avoid data loss.
- ⑧ HDD is precision equipment and RAID is precision system. Please backup your files all the time and operate it carefully to avoid any data mistakes or data loss resulted from improper operations.

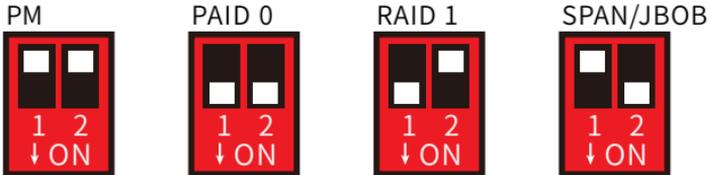
3. Set RAID through RAID Control Switch

- ① Turn off the HDD enclosure and HDDs, switch the RAID control switch to "PM" position, press "Set" button and turn on the power switch of the HDD enclosure. PM mode will be set successfully in about 10s. It will buzz when the setting is completed.
- ② Turn off the HDD enclosure and HDDs again, switch the RAID control switch to your required RAID mode position, press "Set" button and turn on the power switch of HDD enclosure. Required RAID mode will be set in about 10s. It will buzz when the setting is completed.
- ③ HDDs or HDD group that has been set RAID mode will be displayed on computer later and it can be started to use after initiating and partitioned formatting. Please try to restart the HDD enclosure and computer or reset RAID mode if HDDs or HDD group aren't displayed on computer.

Press and hold the "SET" button, then boot the enclosure, and release the SET button after about 10 seconds, that is, the RAID mode is successfully set.

Note: After the RAID is successfully formed, a new hard disk will be generated. It must be initialized and formatted before it can be used normally.

3529RU3 RAID modes



(PS: White button is a function button)

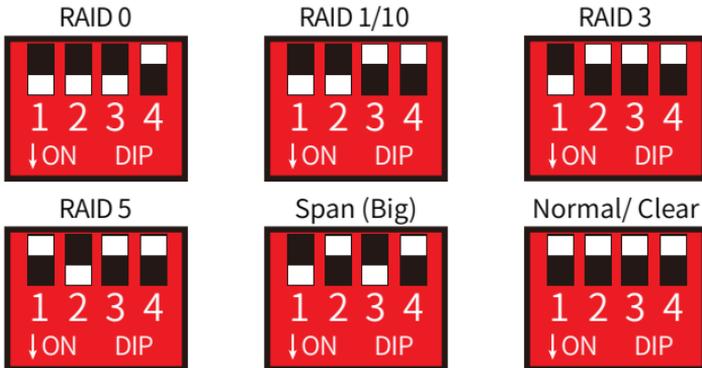
PM(upper—upper)

RAID 0(lower—lower)

RAID 1(lower—upper)

SPAN(upper—lower)

3549RU3、3559RU3 RAID modes



(PS: White button is a function button)

RAID 0(lower—lower—lower—upper)

RAID 1/10(lower—lower—upper—upper)

RAID 3(lower—upper—upper—upper)

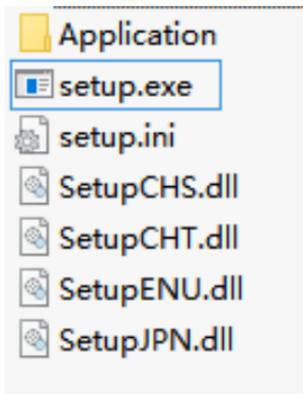
RAID 5(upper—lower—upper—upper)

Span(Big)(lower—upper—lower—upper)

Normal(upper—upper—upper—upper)

Set through ORICO HW RAID Manager Software

1. Download and install ORICO HW RAID Manager from ORICO official site. Please unzip it before operating if the software is RAR form.



2. Turn off the HDD enclosure, run Setup.exe of installation program and start installing as the following pictures show. You may need to restart your PC after finishing the installation.

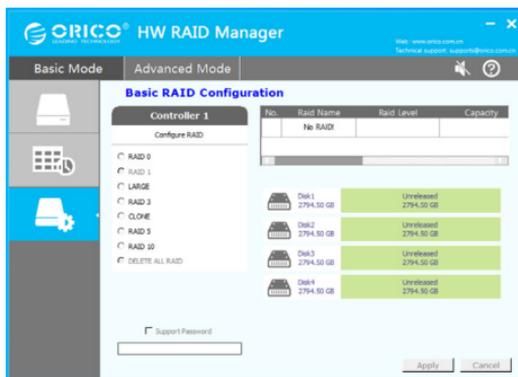




3. The shortcut of ORICO HW RAID Manager software will appear on PC desktop after finishing the installation. Please turn on the power of the HDD enclosure and HDD, double click to run the software to set or manage RAID.



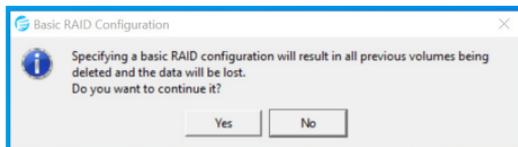
4. Click the icon in the left box at the following picture to open the basic RAID setting interface. Choose the required RAID mode in the RAID mode list and then click "Apply" to set the RAID mode.



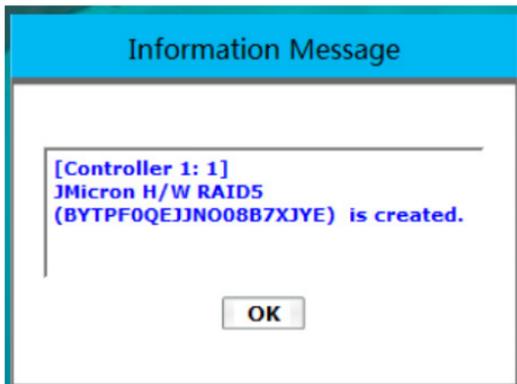
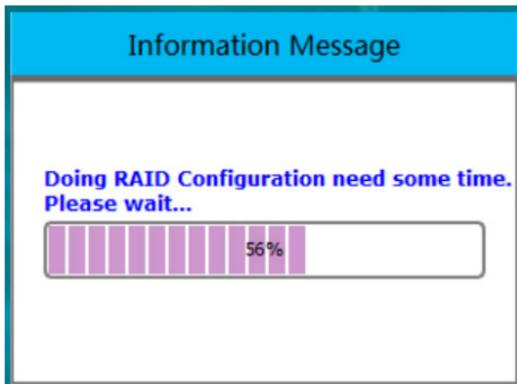
Note:

Please confirm the HDD enclosure and HDDs are under Normal mode before setting your required RAID mode. Or you could set Normal mode in advance before setting or changing to the required RAID mode.

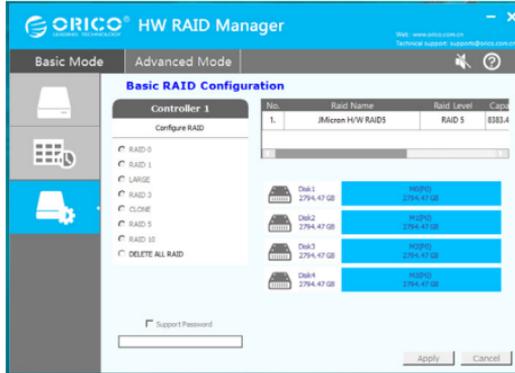
5. Pop up the following interface and click "Yes" to set the chosen RAID, click "No" to cancel the setting.



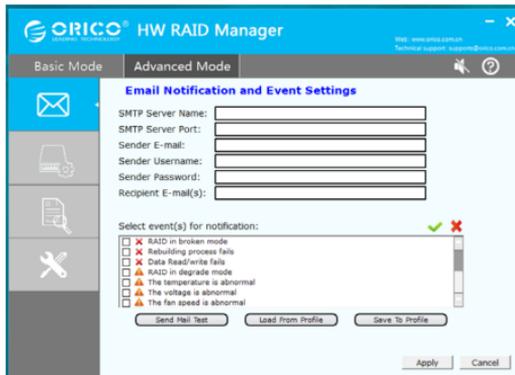
6. After click "Yes", setting will be started automatically and the progress bar will show you setting progress. Pop up the prompt interface to let you know the setting is finished.



7. HDDs or HDD group that has been set RAID mode will be displayed on computer later and it can be started to use after initiating and partitioned formatting. (Please try to restart the HDD enclosure and computer or reset RAID mode if the formatting of HDDs or HDD group is fail.)



8. Click the advanced options as the following picture shows to open "E-mail Informing Set". We are sorry that it cannot support this function at present. We will inform you as soon as possible when it can be normally used.



Attention

1. The hard drive is precision device, please refer to operation manual in advance and correctly operate it.
2. Please do not disassemble or Repair this product by yourself.
3. Please do not puncture or crush this product and keep it away from high and low temperature, damp and dusty conditions.
4. You will need to initialize the hard drive to work properly if you are using a new hard drive.

Remove the Device

Attention: Do not forcibly remove the hard drive enclosure and disks to avoid data damage or loss.

1.Remove devices from Windows

To stop using the device, click the "safely remove hardware and media" button in the lower right corner of the taskbar, and then click the device to be removed. When the system prompts "safely remove hardware", that means the device has been successfully removed from the system and it can be unplug from the computer.

2.Remove devices from Mac OS

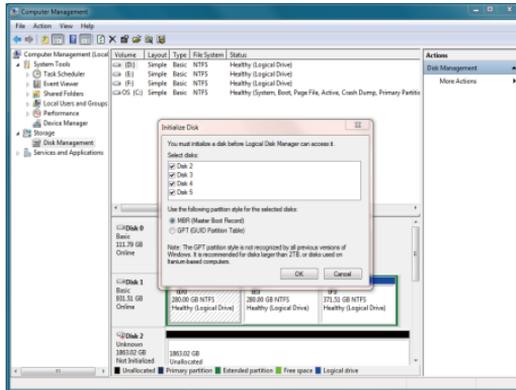
To stop using the device, select the device, and move it to the trash bin.

Hard-drive Format Partition Operation

You need to initialize and format the partition first, otherwise it won't work properly. If it is a brand-new hard drive, please initialize and format the partition according to the following steps:

- 1.Please ensure the ORICO enclosure is installed properly, and connected to the computer.

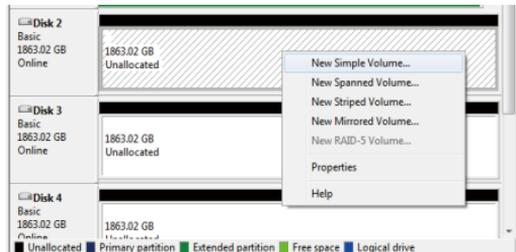
2.Right click “My Computer” , then select “Computer Management” , tap or click “Disk Management” on the left side of the window when “Computer Management” opens, then select “MBR” or “GPT” partition form and click “OK”



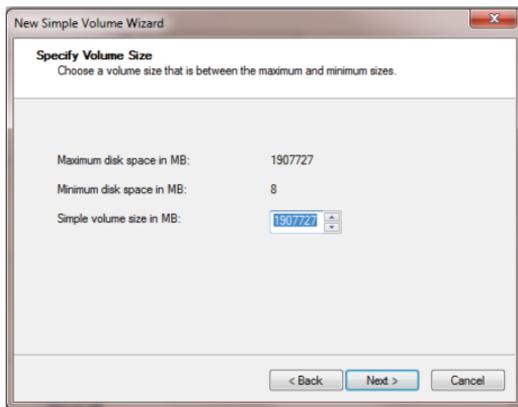
Note:

- If the disk capacity is less than 2TB, please use MBR partition form to initialize the hard disk.
- If the disk capacity is greater than 2TB, the disk must be initialized by using of GPT partition form, otherwise only 2TB capacity will be available and the excess capacity will not able to use.

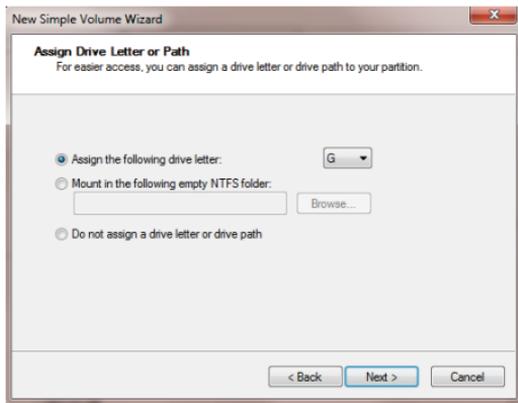
(3) Right click the "unallocated" disk space, select "new simple volume" to start formatting the hard drive partition



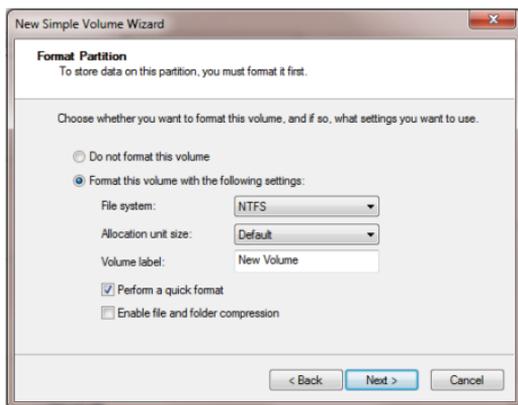
- (4) When setting the capacity of disk partition, can customize the partition capacity, or set the default maximum simple volume size, and there will be only one disk partition.



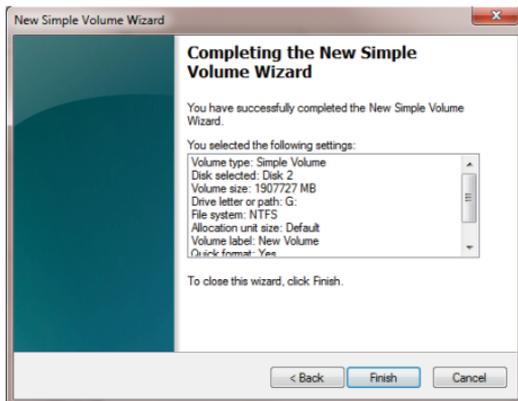
- (5) Allocating the drive letter and path, (e.g. Explorer, C, D, E, F, G drive) drive letter.



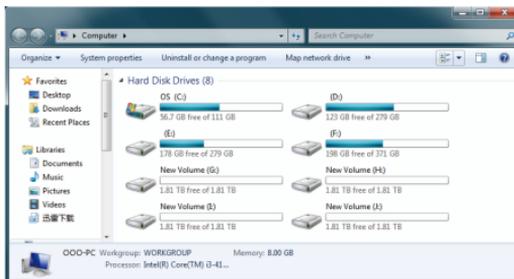
- (6) Format partition, able to set file system format (NTFS, FAT32 or exFAT), assign unit size (default set), volume label name, recommend "perform quick format", and click "next" when configuration is completed



- (7) Click "finish" to perform the final step of formatting partition.



- (8) It will take 5-30 seconds, and the new partition drive letter will be displayed in the explorer after formatting.



Failure Solutions

If the product appears in the case that the computer cannot recognize the hard disk, it can be excluded by the following methods:

- With Windows XP, due to a bug in the XP system, a hard disk with more than 2TB capacity cannot be properly identified and must be updated to Windows 7 or later.
- Please confirm whether your hard disk is a new hard disk (never used, no storage data). The new hard disk must be initialized and formatted before it can be used.

Notice

1. Please do not hit, throw, or puncture the product, and avoid dropping, squeezing, or bending.
2. Please do not use or store this product in a humid environment and avoid being wetted or rinsed with liquids.
3. Please do not use the product in a hot, high-dust environment and keep it away from fire.
4. Please do not expose this product to the sun.
5. Please do not place this product in a corrosive environment. Do not use other chemical solutions to clean the product.

6. Please keep the product and accessories away from children. Do not allow children to use the product without supervision.
7. Please do not disassemble and repair the product or accessories without the authorization of ORICO.
8. If you have any questions during the use of this product, please feel free to contact your dealer or ORICO Customer Service Center.

Declaration

ORICO Technologies Co., Ltd., all rights reserved.

Thank you so much for purchase ORICO product. Please refer to this manual when using orico product or experienced issues. Additionally, please kindly contact ORICO customer care team if any concern.

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2. Profit and revenue lost or damage.
3. Files, data, drive and device lost or damage.

Note: Compensation for lost or damage resulting from This manual or orico product shall not exceed the payment of your purchase to this product.

FCC

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



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