

RSHTECH RSH-339

RSHTECH USB 3.0 to SATA Hard Drive Enclosure Instruction Manual

Model: RSH-339

Brand: RSHTECH

PRODUCT OVERVIEW

The RSHTECH RSH-339 is an upgraded 3.5-inch SATA HDD Docking Station designed for quick installation and reliable data transfer. It supports 3.5-inch SATA I/II/III HDD/SSD drives up to 16TB, including newly released NAS hard drives. This enclosure features an aluminum alloy construction for durability and heat dissipation, along with UASP support for enhanced data transfer speeds.

Key features include:

- **Broad Compatibility:** Supports 3.5-inch SATA I/II/III HDD/SSD up to 16TB. Compatible with PS4, PS4 Pro, Windows 2000/XP/VISTA/Windows 7/8/10/Linux/Mac 9.0 or above.
- **Multiple Protection:** Aluminum housing with independent 12V/2A power supply and ASM1153e master chip ensures stable transmission and protection against over voltage, leak currents, short circuits, and peak voltage.
- **6Gbps Data Transfer Rates:** Supports 6Gbps max transfer speed and UASP (USB Attached SCSI Protocol) for faster data transfer. Connect to a USB 3.0 port for optimal performance.
- **Automatic Sleep Function:** Enters sleep mode after 10 minutes of data access inactivity to protect the hard drive.
- **Better Cooling:** Aluminum HDD case with vents and an ABS bracket for vertical docking provides improved heat dissipation.



Figure 1: RSHTECH USB 3.0 to SATA Hard Drive Enclosure with its stand.

PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x RSHTECH SATA Hard Drive Enclosure
- 1 x Bracket
- 1 x Power Adapter (12V/2A)
- 1 x Screw driver
- 4 x Screws (2 short for inner tray, 2 long for enclosure)
- 1 x Super-Speed USB 3.0 Cable
- 1 x Instruction Manual (this document)



Figure 2: All components included in the RSHTECH Hard Drive Enclosure package.

SETUP GUIDE

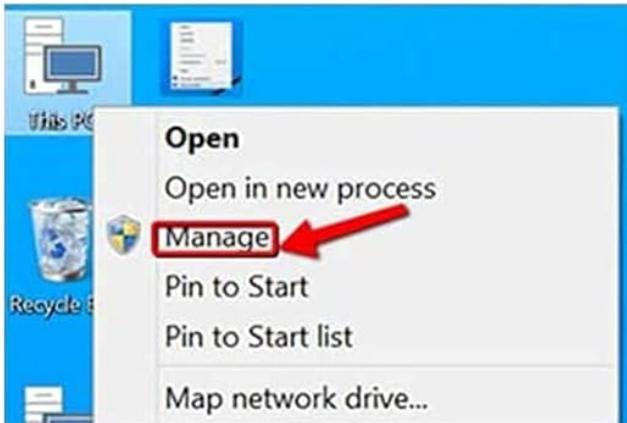
1. Hard Drive Installation

Follow these steps to install your 3.5-inch SATA HDD or SSD into the enclosure:

1. Gently slide the inner tray out of the aluminum enclosure.
2. Insert your 3.5-inch SATA HDD/SSD into the inner tray, ensuring the SATA connectors align properly.
3. Secure the HDD/SSD to the inner tray using the two short screws provided.
4. Slide the assembled tray back into the aluminum enclosure until it is fully seated.
5. Tighten the enclosure using the two long screws provided to secure the inner tray within the outer casing.

Initialize and Format Before Use

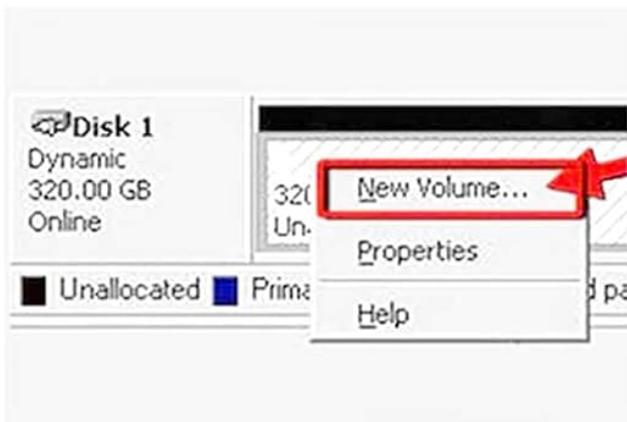
If the SSD or HDD has never been formatted before, it needs to be formatted. Otherwise, the computer will not be able to detect it. The method is as follows:



- 1 Right click on "This PC"
Select "Manage"



- 2 Go to "Disk Management"
Initialize the new disk as GPT
(More than 2TB) or MBR (below 2TB).



- 3 Right click on the unallocated disk
Then select "New Volume"

- 4 Follow the instructions to create volume and format disk

Then you will be able to access and use the SSD/HDD.
(Note: Please backup your data before formatting.)

*Please check the user manual or contact us if you need further assistance.

Figure 3: Inserting the 3.5-inch SATA HDD into the inner tray.

Super Speed

USB3.0 chipset support data transfer up to 5Gb/s
Support UASP protocol



Figure 4: Securing the HDD with screws and assembling the enclosure.

Note: If installing a 2.5-inch hard drive, the screw holes may not align. In such cases, use a suitable method (e.g., tape) to fix the drive in place to prevent movement.

2. Connecting to Your Computer

Connect the enclosure to your computer using the provided USB 3.0 cable. For optimal performance and to utilize UASP speed, ensure you connect the enclosure to a USB 3.0 port on your computer.



Figure 5: Enclosure connected to a laptop.

3. Power Connection

Connect the 12V/2A power adapter to the DC Jack on the enclosure and then plug it into a power outlet. The enclosure requires external power for operation.



Figure 6: Location of Power Button and DC Jack.

4. Initializing and Formatting New Drives

If you are using a new HDD or SSD that has never been formatted, your computer may not detect it until it is initialized and formatted. Follow these general steps:

1. Right-click on 'This PC' (or 'My Computer') and select 'Manage'.
2. In the Computer Management window, navigate to 'Disk Management'.
3. Locate your new hard drive, which will likely appear as 'Unallocated Space'.
4. Right-click on the unallocated space and select 'Initialize Disk'. Choose GPT for drives larger than 2TB, or MBR for drives 2TB or smaller.
5. After initialization, right-click on the unallocated space again and select 'New Simple Volume' to create a partition and format the drive. Follow the on-screen prompts to complete the process.

Important: If there is existing data on the hard drive, ensure you back it up before formatting, as formatting will erase all data.

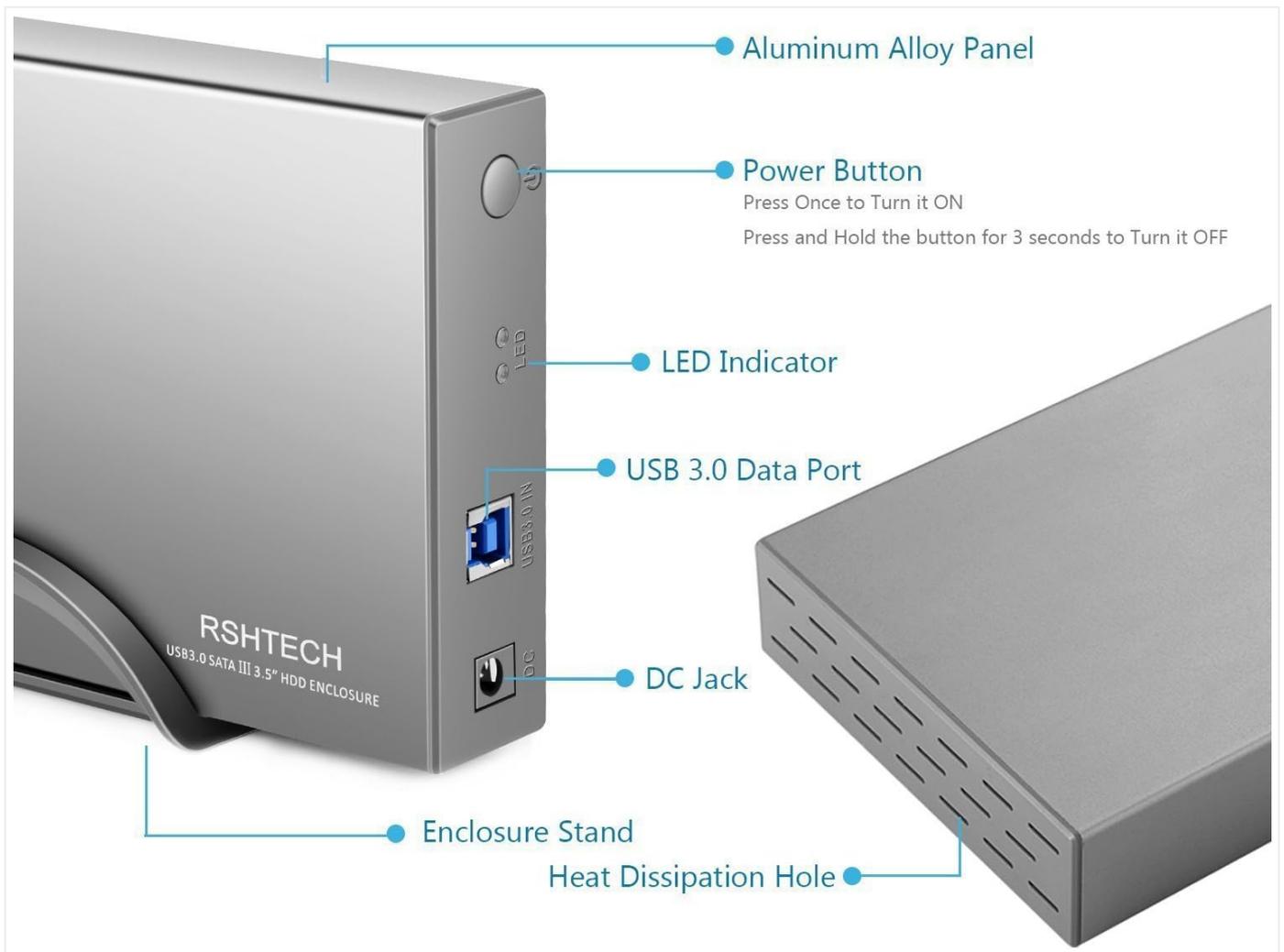


Figure 7: Steps for initializing and formatting a new drive.

OPERATING INSTRUCTIONS

Power On/Off

- To turn on the enclosure, lightly press the power button located on the front panel.
- To turn off the enclosure, press and hold the power button for approximately 3 seconds. This electronic power button design helps protect the hard disk from accidental shutdowns.

LED Indicators

The enclosure features two LED indicators:

- **Red LED:** Indicates power status.
- **Blue LED:** Indicates hard drive activity (flashes during data transfer).

Data Transfer and UASP

The RSHTECH RSH-339 supports USB 3.0 with a maximum transfer speed of 6Gbps. It also supports the UASP (USB Attached SCSI Protocol) for accelerated data transfer, especially with SSDs. To benefit from UASP, ensure your computer's operating system and USB host controller support the UASP protocol.



Figure 8: Illustration of Super Speed with UASP protocol.

Automatic Sleep Mode

The enclosure is designed with an automatic sleep function. If there is no data access activity for 10 minutes, the enclosure will enter sleep mode to conserve power and extend the lifespan of your hard drive. The drive will automatically wake up upon data access.

Safely Removing Hardware

To prevent data loss or corruption, always safely remove the hard drive enclosure from your computer before unplugging the USB cable or power adapter. In Windows, click the "Safely Remove Hardware and Eject Media" icon in the system tray and select the appropriate device.

MAINTENANCE

Cooling and Ventilation

The aluminum alloy casing and integrated vents contribute to efficient heat dissipation. For optimal cooling, especially during prolonged use, utilize the provided ABS bracket to position the enclosure vertically. This allows for better airflow through the vents.

Cleaning

To clean the enclosure, use a soft, dry cloth. Avoid using liquid cleaners or abrasive materials, as they may damage the surface or internal components.

TROUBLESHOOTING

If you encounter issues with your RSHTECH Hard Drive Enclosure, please refer to the following common problems and solutions:

HDD/SSD Not Recognized by the Computer

- **New or Unformatted Drive:** If the HDD/SSD is new or has never been formatted, it needs to be initialized and formatted through Disk Management (refer to the "Initializing and Formatting New Drives" section in Setup Guide).
- **Unallocated Space:** Check Disk Management to see if the hard drive appears as 'Unallocated Space'. If so, create a new partition and format it.
- **Loose Connections:** Ensure all cables (USB and power) are securely connected to both the enclosure and the computer/power outlet.
- **Insufficient Power:** Verify that the correct 12V/2A power adapter is used and properly connected.
- **Driver Issues:** While typically plug-and-play, ensure your operating system has the necessary USB drivers updated.
- **Faulty Drive:** Test the hard drive in another enclosure or directly connect it to a computer (if possible) to rule out a drive malfunction.
- **Faulty USB Port:** Try connecting the enclosure to a different USB port on your computer.

Slow Data Transfer Speeds

- **USB 3.0 Connection:** Ensure the enclosure is connected to a USB 3.0 port on your computer. Connecting to a USB 2.0 port will result in significantly lower speeds.
- **UASP Support:** Confirm that your computer's operating system and USB host controller support the UASP protocol for optimal performance.
- **Drive Speed:** The actual transfer speed is also limited by the speed of the installed HDD/SSD.

SPECIFICATIONS

Feature	Detail
Model Number	RSH-339
Compatible Drives	3.5-inch SATA I/II/III HDD/SSD
Max Capacity Supported	Up to 16 TB
Interface	USB 3.0 (backward compatible with USB 2.0/1.1)
Data Transfer Rate	Up to 6 Gbps (USB 3.0 with UASP)
Material	Aluminum Alloy (Enclosure), ABS Plastic (Bracket)
Power Adapter	12V/2A
Compatible OS	Windows 2000/XP/VISTA/7/8/10, Linux, Mac 9.0 or above
Dimensions	7.3"L x 4.3"W x 1.25"H (185 x 109 x 31.75 mm)

Item Weight	1.28 pounds (0.58 kg)
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WARRANTY AND SUPPORT

Warranty Information

RSHTECH products typically come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official RSHTECH website for detailed warranty terms and conditions specific to your region.

Customer Support

For technical assistance, troubleshooting, or any inquiries regarding your RSHTECH Hard Drive Enclosure, please contact RSHTECH customer support. Contact information can usually be found on the product packaging, the official RSHTECH website, or through your point of purchase.

When contacting support, please have your product model (RSH-339) and purchase details ready to facilitate a quicker resolution.

