

## 5-BAY USB 3.0 RAID DOCKING STATION FOR 2.5" SATA DISKS AND SSDs



WITH BUILT-IN COOLING FAN

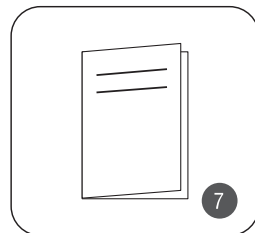
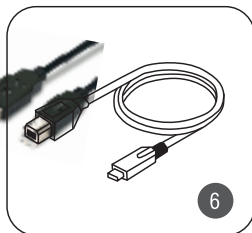
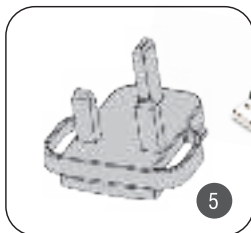
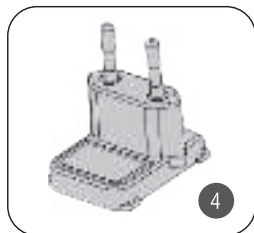
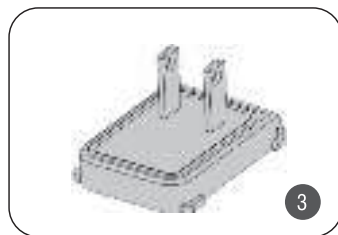
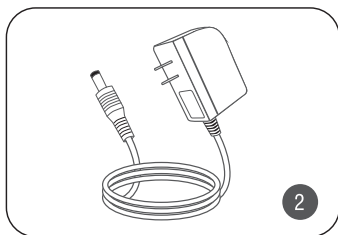
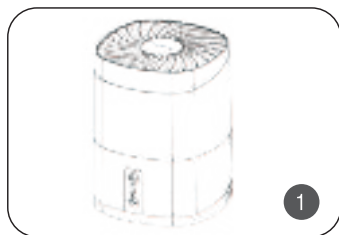
## FEATURES

- Expand your storage space professionally. Read and write up to five disks or SSDs simultaneously.
- Configure it for single-mode use or into a RAID array with a built-in controller capable of RAID 0, RAID 1, RAID 3, RAID 5, RAID 10 or JBOD.
- Get a stable and reliable USB connection on systems that lack sufficient power over USB ports and the right amount of internal SATA ports.
- Hot Swappable / Plug & Play. Supports 2.5" SATA I / II / III HDD and SSDs.
- Independent cooling fan can be switched on and off as desired.
- Individual LED power indicators.
- Tool-free installation with fast and convenient access to the disk bays.

**NOTE: Maximum HD/SSD thickness is 9.5mm.**

## OPERATING SYSTEM REQUIREMENT

- Windows / Mac / Linux

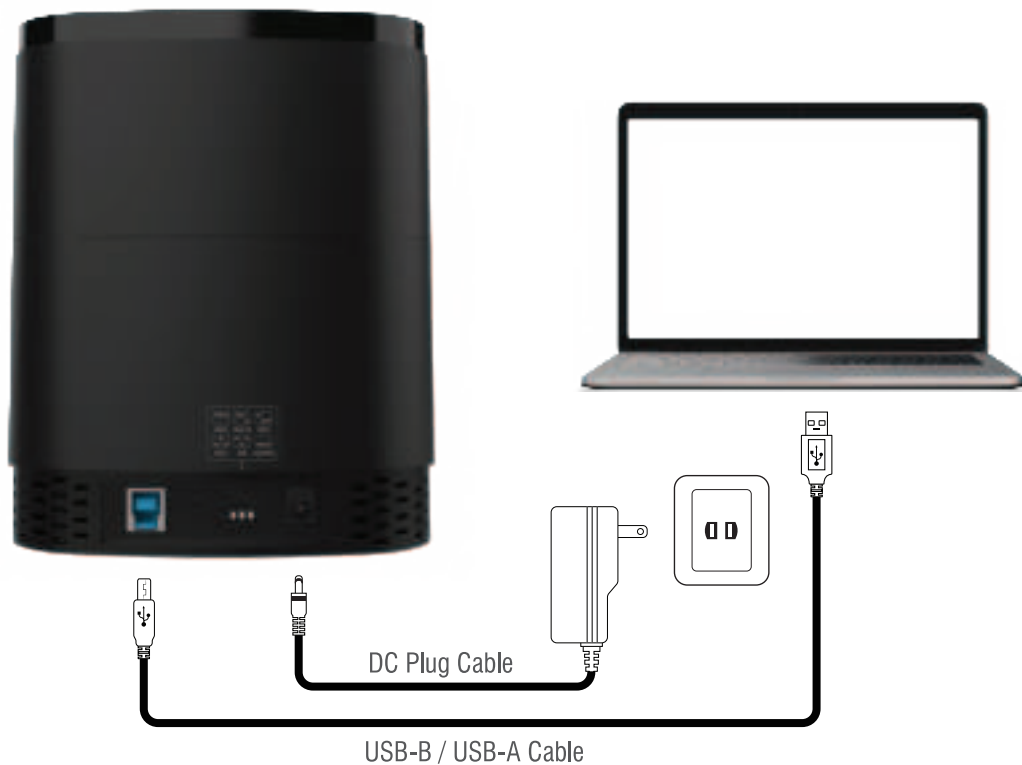


## PACKAGE CONTENTS

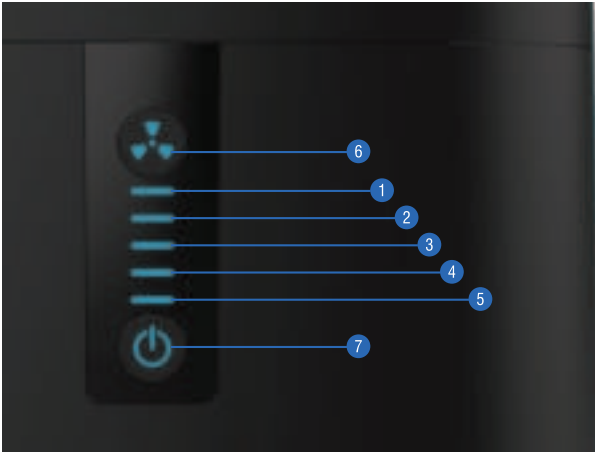
1. 5-Bay docking station.
2. 100-240V AC to 12V 4AMP DC power supply.
3. US plug adapter.
4. Europe and South America plug adapter.

5. UK plug adapter.
6. USB Type-B to Type-A cable.
7. User Guide.

## CONNECTION DIAGRAM

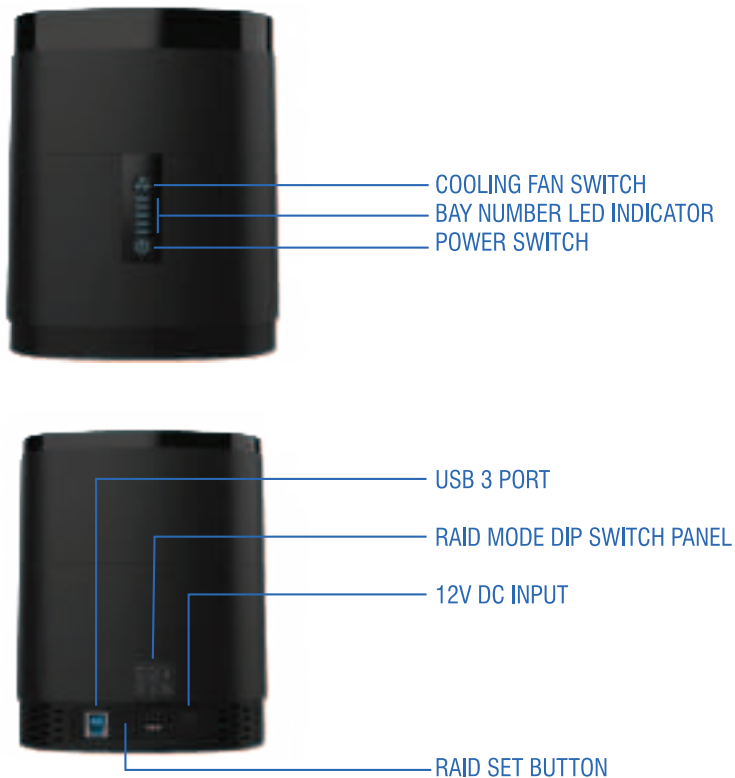


LED STATUS INDICATORS









#	COLOR	FUNCTION	DESCRIPTION
1	BLUE	POWER LED	INDICATES 2.5" DISK #1 IS CONNECTED
2	BLUE	POWER LED	INDICATES 2.5" DISK #2 IS CONNECTED
3	BLUE	POWER LED	INDICATES 2.5" DISK #3 IS CONNECTED
4	BLUE	POWER LED	INDICATES 2.5" DISK #4 IS CONNECTED
5	BLUE	POWER LED	INDICATES 2.5" DISK #5 IS CONNECTED
6	BLUE	FAN POWER BUTTON	SOLID BLUE TO INDICATE THE COOLING FAN IS ON
7	BLUE	MAIN POWER BUTTON	SOLID BLUE TO INDICATE THE UNIT IS ON

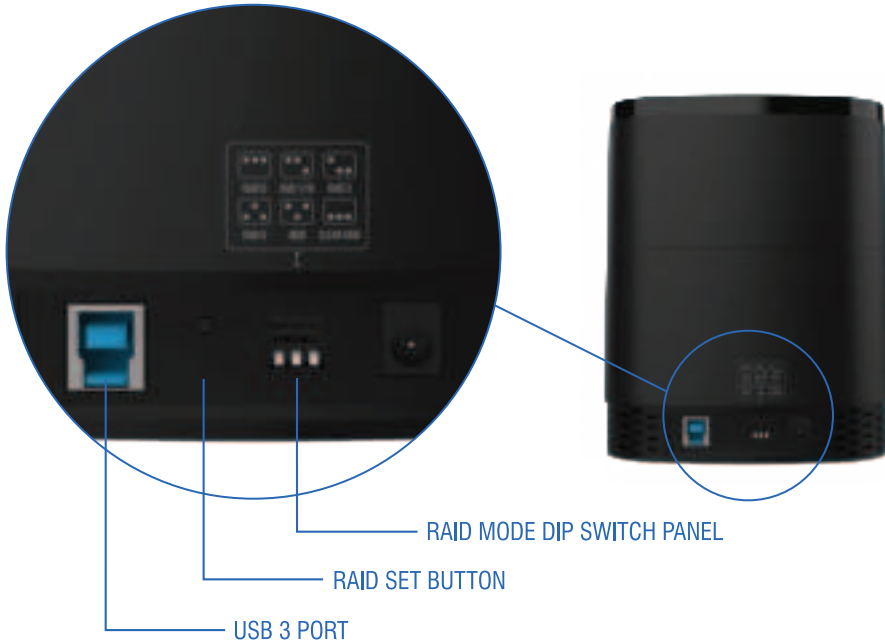
## FRONT AND REAR VIEWS



## AVAILABLE RAID MODES

RAID0	
RAID1/0	
RAID3	
RAID5	
JBOD	
Clear RAID	

## RAID SETUP



1. Use the dip switch panel to select the desired RAID mode.
2. Press and hold the SET button for 5 to 7 seconds for the RAID controller to start building the RAID array.
3. Remember to format and assign a letter to your newly created RAID volume.

**WARNING: Changing the RAID mode requires formatting the disks. Make sure to backup your existing data before proceeding because it will be erased.**



**RAID 0** (also known as a striped volume) splits data evenly across two or more disks, without parity information, redundancy, or fault tolerance. Since RAID 0 provides no fault tolerance or redundancy, the failure of one drive will cause the entire array to fail; as a result of having data striped across all disks, the failure will result in total data loss. This configuration is typically implemented having speed as the intended goal. RAID 0 is normally used to increase performance, although it can also be used as a way to create a large logical volume out of two or more physical disks.

**RAID 1** consists of an exact copy (or mirror) of a set of data on two or more disks; a classic RAID 1 mirrored pair contains two disks. This configuration offers no parity, striping, or spanning of disk space across multiple disks, since the data is mirrored on all disks belonging to the array, and the array can only be as big as the smallest member disk. This layout is useful when reading performance or reliability is more important than writing performance or the resulting data storage capacity. The array will continue to operate so long as at least one member drive is operational.

**RAID 1/0** (striping of mirrors) is obtained by combining RAID 1 and RAID 0. RAID 10 is fast and resilient at the same time. If you need hardware-level protection for your data and faster storage performance, RAID 10 is a simple, relatively inexpensive fix. RAID 10 is secure because mirroring duplicates all your data. It's fast because the data is striped across multiple disks; chunks of data can be read and written to different disks simultaneously. To implement RAID 10, you need at least four physical hard drives.

**RAID 3**, which is rarely used in practice, consists of byte-level striping with a dedicated parity disk. One of the characteristics of RAID 3 is that it generally cannot service multiple requests simultaneously, which happens because any single block of data will, by definition, be spread across all members of the set and

will reside in the same physical location on each disk. Therefore, any I/O operation requires activity on every disk and usually requires synchronized spindles.

This makes it suitable for applications that demand the highest transfer rates in long sequential reads and writes, for example uncompressed video editing. Applications that make small reads and writes from random disk locations will get the worst performance out of this level.

**RAID 5** consists of block-level striping with distributed parity. Parity information is distributed among the drives. It requires that all drives but one be present to operate. Upon failure of a single drive, subsequent reads can be calculated from the distributed parity such that no data is lost. RAID 5 requires at least three disks. RAID 5's distributed parity evens out the stress of a dedicated parity disk among all RAID members. Additionally, write performance is increased since all RAID members participate in the serving of write requests. Although it will not be as efficient as a striping (RAID 0) setup, because parity must still be written, this is no longer a bottleneck.

**JBOD** (also called concatenated) is not a RAID, it is a group of disks connected together for the purpose of creating a larger volume. As in RAID 0, JBOD provides no fault tolerance or redundancy. The failure of one drive will cause the entire array to fail and will result in total data loss.

**CLEAR RAID** disables all RAID functionality. The docking station will see each disk as an independent disk and will let the operating system see them as single units.

## DISK FAILURE AND REPLACEMENT

When a disk from the RAID fails, the corresponding LED will start to flash in red. Remove the failing disk and replace it with a new one of the same or bigger capacity. Depending on the selected RAID mode, after rebuilding the array, the red LED should turn to blue, indicating normal operation.

1

**STEP 1**

Open the docking station by lifting the magnetic lid straight up.

2



**BE CAREFUL WITH THE DIRECTION  
OF THE DISK'S SATA PORT**



### STEP 2

Carefully insert each disk until it is properly connected to the SATA connector at the bottom of each bay. Be careful with the direction of the SATA port as it can only go one way. Avoid damaging the connector.

3



### STEP 3

Place back the magnetic lid to close the docking station. Use the front power switch to turn the unit on and the fan switch to turn on the built-in cooling fan.

## TROUBLESHOOTING

### **My Computer Will Not Recognize My Docking Station:**

- Make sure the USB cable is properly connected to your docking station and computer.
- Try connecting the docking station to a different USB port on your computer or laptop.  
It may take up to 60 seconds for the computer to recognize the docking station.
- Make sure you have the most recent updates for your operating system.
- Make sure your power outlet is working.
- Plug your USB device directly into a USB port on your computer (if plugged into a USB hub).
- If your computer still does not recognize the device, please contact Sabrent support.

### **Connection Is Slow:**

Make sure the docking station is connected directly to a USB 3.0 port on your computer. Do not use a USB hub. While the docking station is backwards compatible, when connected to a USB 2.0 or 1.1 port, the docking station will operate at much slower speed.

### **Power Issues:**

Try the power adapter on a different power outlet. Make sure that the power adapter is securely connected to the docking station.

### **Docking Station Disconnects From Computer:**

Make sure the USB cable is securely connected to your docking station and computer. Connect the power adapter to the docking station and a working power outlet. Try connecting the docking station to a different USB port on your computer. Check your computer's sleep or standby settings.



FOR HELP, COMMENTS, QUESTIONS OR CONCERNS  
PLEASE CONTACT OUR TECH SUPPORT TEAM VIA OUR WEBSITE  
**[WWW.SABRENT.COM](http://WWW.SABRENT.COM)**