



SOHORAID
SR8-TB2
User Manual

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About this Manual

Thank you for choosing the STARDOM product. This manual will familiarize you with the STARDOM SR8-TB2 product. We recommend reading through this manual before using the STARDOM SR8-TB2 product. The information provided in this manual was checked before publication, but the actual product specifications may have changed before shipping; Latest product specifications and updates can be found at www.STARDOM.com.tw. No separate notifications will be provided by our company. If you would like to receive the latest STARDOM product information, manuals, and firmware, or have any questions regarding STARDOM products, please contact your local supplier or visit www.STARDOM.com.tw for more information.

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1. Environmental Requirements

Operating temperature: 10 ~ 35 °C (50 ~ 95 °F)

Storage temperature : -20 ~ 47°C (-4 ~ 116 °F)

Operating voltage: 100 ~ 240V AC

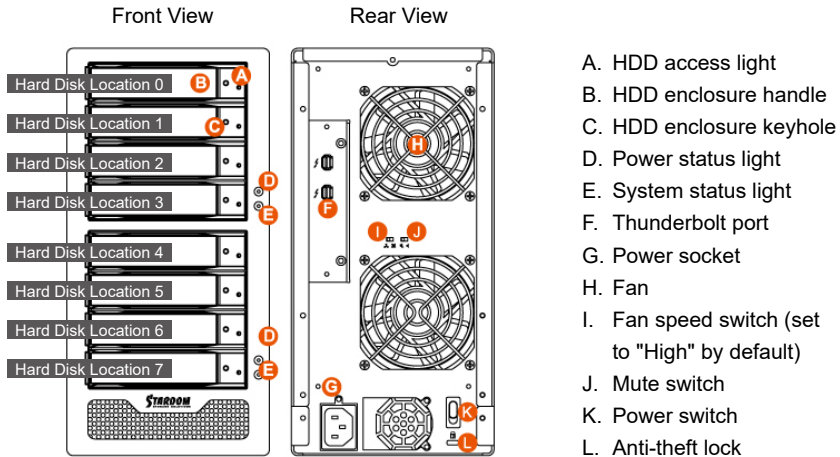
2. Product Appearance and Packaging Content

The following items should be inside the package upon opening:

SR8-TB2
SR8-TB2 product x 1 (containing HDD enclosure x 4)
Thunderbolt cable x 1
Power cable x 1
Screws and key x 13
CD x 1
Quick Setup Guide x 1

Please check the product and accessories for any defect or missing parts. If you have any questions, please contact your product supplier.

Front and Rear Views



Note:

If you do not have 8 HDDs, please follow the above HDD number sequence to load all your in hand HDDs.

3. Hardware Requirements and Precautions

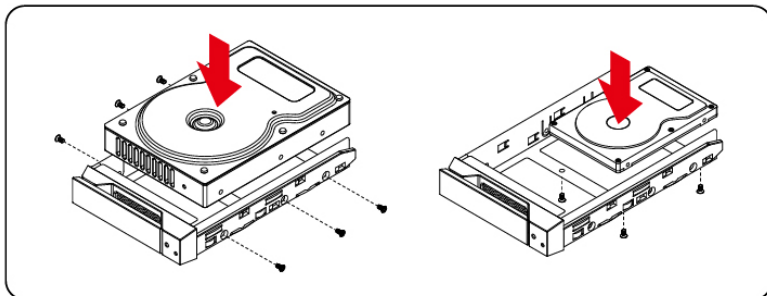
1. This system can only transfer data to one computer through one interface at a time.
2. The capacity of RAID 5 is the size of capacity of the smallest hard disk multiplied by 7 while RAID 0 is multiplied by 8. The result will be treated as one single high-capacity drive. A hard disk must therefore be installed in every bay before this system can be used. We also recommend using brand new hard disks with identical specifications from the same brand. If a hard disk needs to be changed, please be sure to buy a hard disk with the same specifications, capacity, and brand. If this is not possible, then the capacity of the new hard disk should be at least 20GB larger than the existing hard disk.
3. After the hard disk is formatted, the actual total capacity of the SR8-TB2 detected by the computer operating system will vary from the sum of all hard disk capacities stated by the manufacturer.
4. All existing data will be deleted when this product is set up for the first time. Please ensure that all data on the hard disk has been backed up before installation to avoid data loss.
5. Before a new HDD is installed in the SR8-TB2, please make sure that there are no bad tracks or defects to avoid data loss.
6. If the SR8-TB2 needs to be shut down or disconnected, please ensure the HDD is safely removed through your operating system before turning off the power.
7. To prevent data loss, do not remove any of the hard disks while the system is running.
8. Once the system has been initialized, do not switch hard disks around during use. Doing so may prevent the RAID from being recognized by the system.

9. Once RAID mode has been set up, the switching of hard drives will lead to the removal of data from the hard disks. Please be sure to backup the data on the hard disk before making any switches.
10. Under RAID 5 mode, the system can only tolerate the failure of one hard disk. If the system shows that two or more of your hard disks have failed, your stored data may already be damaged or lost. In RAID 0 mode, if the system shows that one of your hard disks has failed, your stored data may already be damaged or lost.
11. If the SR8-TB2 needs to be shut down or disconnected, please ensure the HDD is safely removed through your operating system before turning off the power.
12. The system fan will run at full speed when system temperature reaches 50 degrees to speed up heat dissipation. The fan will only return to the manual speed setting when system temperature drops back below 45 degrees.
13. We strongly recommend backing up important data stored on the SR8-TB2 to another storage device or a remote site. STARDOM will not be held liable for the damage or loss of data you stored on the SR8-TB2.

4. Hardware Installation

Please follow the steps below to complete the hardware installation process:

- Step 1 When you open the package, please immediately check the product and included parts for any damage or missing parts. If there is a problem with the product or included parts please contact your supplier immediately.
- Step 2 Place the device on a flat, even surface. Make sure that the cooling fan is not blocked and there is sufficient surrounding space for cooling. (Keep away from water or other environments that may cause product damage)
- Step 3 Please insert the pin included with the parts pack into the keyhole to release the HDD enclosure handle and remove the HDD enclosure.
- Step 4 Place the hard disk in the HDD enclosure and secure it in place with the included screws; this will prevent damage to the hard disk from external vibration.



Note: Please avoid using hard disk drives from different manufacturers or different models from the same manufacturer as this may impact system performance.

- Step 5 Once the hard disk is installed, slide the enclosure into the system and close the handle.
- Step 6 Select the appropriate cable from the accessories pack depending on the interface. Connect the SR8 backplane connection port to the corresponding port on the computer.

- Step 7 Connect the AC Power cable to the SR8-TB2. Plug the connector into the power socket then start the system.
- Step 8 Your operating system will automatically detect available capacity once the device finishes booting. Once the device has been detected, please follow instructions given by the operating system and format the system. Once the hard disk has been formatted, the SR8-TB2 system can be used.
- Step 9 If the computer is unable to detect the system, please install the drivers included with the installation CD.

Please refer to the Marvell Storage Utility_User Manual.pdf for instructions on RAID configuration.

5. Troubleshooting Fan Errors

The SR8-TB2 includes a fan failure warning function. When the fan of the SR8-TB2 fails, the built-in buzzer will sound. The red warning light on the front plate will also light up; If this happens, press the mute switch at the back of the system to turn off the buzzer. Next, turn off power to the SR8-TB2 as soon as possible to let the machine cool down. Check to make sure that the machine is placed in a well-ventilated location with nothing obstructing the fan, also check to see if the SR8-TB2's fan has stopped turning. Once the above checks have been completed, turn the power back on to continue using this system. If this doesn't solve the problem, please contact the product supplier or STARDOM for further technical assistance.

6. Description of HDD Indicators

Status	Power Status Light		HDD Status Light		Buzzer	Remarks
	Blue light	Red light	Blue light	Red light		
Power switch	Always on	---	Always on	---	---	
No HDD detected	Always on	---	Purple light always on		---	HDD status light when unplugged (a red light is shown if all eight HDDs are not plugged in)
RAID Failed	Always on	Flashing	---	Always on	YES	
HDD failure	Always on	Flashing	---	Always on	YES	1 Long beep (Continuous, 1-second interval)
Data access	Always on	---	Flashing	---	---	
HDD idle	Always on	---	Always on	---	---	
Rebuilding data - Source HDD	Always on	---	Flashing	---	---	
Rebuilding data - Target HDD	Always on	---	Purple light flashing		---	
Fan failure	Always on	Flashing	Always on	---	YES	1 Long beep (Continuous, 2-second interval)
Overheat	Always on	Flashing	Always on	---	YES	1 A long warning beep when the temperature is over 55°C (Continuous, 2-second interval)

7. Frequently Asked Questions

1. If the SR8-TB2 is turned on, but the Thunderbolt cable is not connected, the fan and power status lights will both be in Sleep mode. The fan and power status light will not come on until the Thunderbolt cable is connected to the computer.
2. When the computer enters into Sleep mode, the fan and power status lights will both be in Sleep mode too. The fan and power status light will not come on until the computer is awoken.
3. If a hard disk already contains data from another RAID product or RAID mode has already been set, we recommend reverting back to JBOD mode before the drive is used with the SR8-TB2 again to avoid problems accessing the hard drive.

關於這份手冊

感謝您使用 STARDOM 的產品。本手冊將介紹 STARDOM SR8-TB2 產品。在您開始使用 STARDOM SR8-TB2 產品前，建議您先閱讀過本手冊。手冊裡的資訊在出版前雖已被詳細確認，實際產品規格仍將以出貨時為準；任何產品規格或相關資訊更新請您直接到 www.STARDOM.com.tw 網站查詢，本公司將不另行通知。若您想獲得 STARDOM 最新產品訊息、使用手冊、韌體，或對 STARDOM 產品有任何疑問，請您聯絡當地供應商或到 www.STARDOM.com.tw 取得相關訊息。

本手冊相關產品內容歸銳銳科技股份有限公司版權所有

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2. 產品外觀及包裝內容
3. 硬體需求與注意事項
4. 硬體安裝
5. 風扇故障狀況排除
6. 指示燈號說明
7. 常見問題

1. 環境需求

工作溫度：10 ~ 35 °C (50 ~ 95 °F)

儲存溫度：-20 ~ 47°C (-4 ~ 116 °F)

工作電壓：100 ~ 240V AC

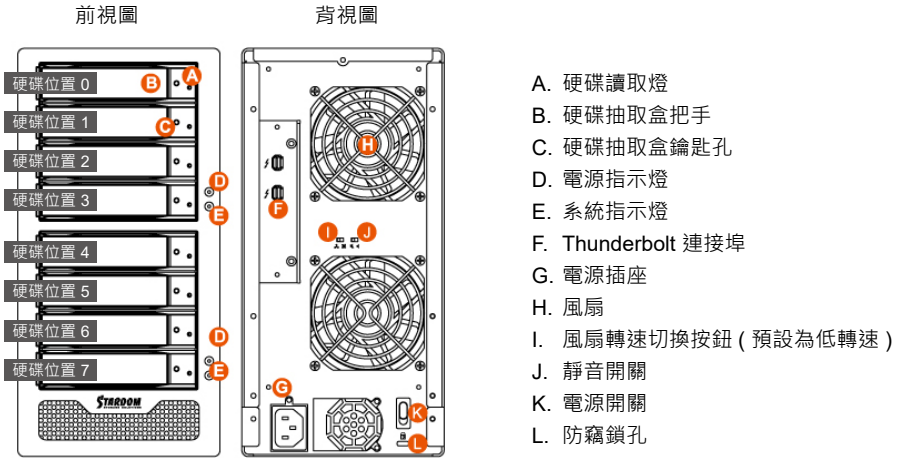
2. 產品外觀及包裝內容

打開包裝外盒後，包裝內容應包含下列組件：

SR8-TB2
SR8-TB2 產品本體 x1(內含抽取盒 x8)
Thunderbolt 連接線 x1
電源線 x1
螺絲及鑰匙 x13
螺絲及鑰匙
快速安裝手冊 x1

請確認相關配件與產品本身是否有受損或配件缺少，若有任何疑問請與本產品供應商聯絡。

正面與背面示意圖



注意：請依硬碟位置順序由上而下安裝硬碟。

3. 硬體需求與注意事項

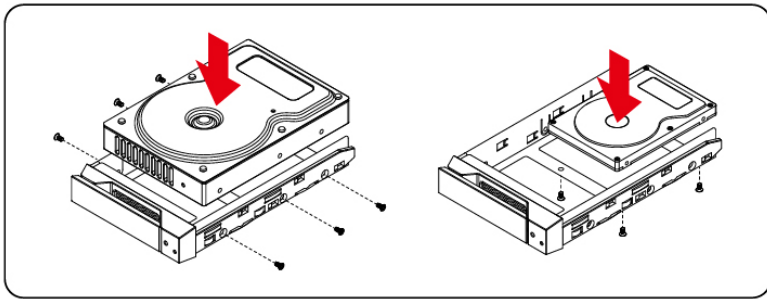
1. 本系統同一時間只可透過一組介面與一台電腦執行資料傳輸。
2. RAID5 的容量形成是將硬碟中最小容量乘上 7 倍後，RAID0 乘上 8 倍，之後會被視為一個大儲存容量；因此，用本系統前必須每顆硬碟裝置槽都已完成硬碟安裝，並建議全部使用相同品牌與同規格之全新硬碟。同時，如果需要更換新的硬碟時，也請您務必購買規格、容量、廠牌相同的硬碟，若您無法購買到符合上述條件的硬碟時，請選購容量大於另一硬碟最少 20 GB。
3. 硬碟格式化後，由電腦主機作業系統所辨識 SR8-TB2 的實際總容量會與硬碟廠所標示的容量加總後，將有所差異。
4. 第一次使用本產品進行設定時，資料會被全數清除。請於硬碟置入前，確認硬碟已備份，避免資料遺失。
5. 在安裝新硬碟到 SR8-TB2 之前，請先確認硬碟是沒有壞軌而且是沒有故障的，以避免資料受損。
6. 當您需要關閉或移除 SR8-TB2 時，務必透過您所操作的作業系統中執行硬碟安全移除後，方可進行電源關閉的動作。
7. 當系統運作時，請勿任意移除任何一顆硬碟，以免導致資料遺失。
8. 完成系統初始化安裝後，在使用上請勿任意變更硬碟位置；此動作將可能導致系統無法形成 RAID。
9. RAID 模式一旦設定完成，若要進行切換，因切換過程中將會清除硬碟中的資料，請務必先將硬碟中的資料另行備份後再行切換。
10. 在 RAID5 模式下儲存系統僅容許單顆硬碟故障。因此，當您發現二顆以上的硬碟顯示故障時，您先前已存儲的資料可能已毀損或遺失；在 RAID0 模式下，當您發現一顆以上的硬碟顯示故障時，您先前已存儲的資料可能已毀損或遺失。
11. 當您需要關閉或移除 SR8-TB2 時，務必透過您所操作的作業系統中執行硬碟安全移除後，方進行電源關閉的動作。

12. 當系統溫度達到 50 度時，機器風扇會全速運轉，加速機器內部散熱，當系統溫度降回 45 度以下時，才會恢復手動風扇轉速設定之狀態。
13. 強烈建議除了使用 SR8-TB2 的資料儲存功能外，請針對重要資料備份到另一個儲存裝置上或遠端備份，雙重備份您重要的資料。若您儲存在 SR8-TB2 的資料損毀或遺失，STARDOM 將不負任何的責任。

4. 硬體安裝

請參照以下步驟完成硬體安裝

- 步驟 1 當你打開包裝後，首先請先檢查產品主體以及附件是不是有毀損或是短缺情形，如果發生產品主體及附件短缺，請立刻與您的供應商聯絡。
- 步驟 2 將主機置放於平穩空間上，並確認散熱風扇沒有被擋住，且四周有適當的散熱空間。（請避免接近水源或是其他容易造成產品損傷的環境）
- 步驟 3 請使用零件包中所附的頂針插入鑰匙孔，開啟硬碟抽取盒把手便將抽取盒取出。
- 步驟 4 將硬碟安裝到抽取盒上，並以零件包內附的螺絲加以固定，以避免不必要的移動對硬碟造成傷害。



注意：不建議使用不同廠牌，或是同廠牌不同型號的硬碟，避免影響效能。

- 步驟 5 硬碟安裝完成後，請將抽取盒平移放入主機內，並關上把手。
- 步驟 6 請依據您欲使用的介面，從附件包中選擇相對應的連接線，將 SR8 背面連接埠與電腦主機相對應介面埠連接。
- 步驟 7 AC Power 電源線與 SR8 連接好，並將接頭接上電源插座後開機。
- 步驟 8 開機後，您的作業系統將會自動辨識到儲存容量；待辨識成功後，請依據您所需的儲存格式，將系統依照作業系統的指示完成格式化。待硬盤格式化完成後，便可直接使用 SR8 系統。
- 步驟 9 如電腦無法辨識此一系統，請安裝光碟中之驅動程式。

RAID 設定方式請參閱 Marvell Storage Utility_User Manual.pdf

5. 風扇故障狀況排除

SR8-TB2 內建風扇故障警示功能，若 SR8-TB2 風扇發生故障時，內建的蜂鳴器會發出警告聲響，前面板的紅色警示燈號也會亮起；此時你可選按系統後面的靜音開關，先將警示聲關閉，並在允許的狀況下關閉 SR8-TB2 電源讓機器降溫；同時，請先確認機體擺放環境是否通風良好，沒有任何物體擋住風扇孔，一併檢查 SR8-TB2 的風扇是否停止運轉；待上述檢查確認後，再將電源開啟繼續使用本系統。若問題還是無法獲得解決，請與此產品供應商或 STARDOM 連絡，以便取得進一步的支援。

6. 硬碟狀態指示燈號說明

狀態	電源狀態燈		硬碟狀態燈		蜂鳴器	備註
	藍燈	紅燈	藍燈	紅燈		
電源開啟	恆亮	—	恆亮	—	—	
無硬碟	恆亮	—	紫燈恆亮		—	抽拔起的硬碟燈號 (八顆未裝入時為紅燈)
RAID 故障	恆亮	閃爍	—	恆亮	YES	
硬碟故障	恆亮	閃爍	—	恆亮	YES	1 長音 (持續，間隔 1 秒)
資料存取	恆亮	—	閃爍	—	—	
硬碟閒置	恆亮	—	恆亮	—	—	
資料重建 - 來源碟	恆亮	—	閃爍	—	—	
資料重建 - 目標碟	恆亮	—	紫燈閃爍		—	
風扇故障	恆亮	閃爍	恆亮	—	YES	1 長音 (持續，間隔 2 秒)
過熱	恆亮	閃爍	恆亮	—	YES	溫度高於 55°C 警報， 1 長音 (持續，間隔 2 秒)

7. 常見問題

1. SR8-TB2 在開機情況下，未連接 Thunderbolt cable 時，風扇與電源指示燈皆為停止及休眠狀態，直至連接 Thunderbolt cable 至電腦才會啟動風扇及電源指示燈。
2. 電腦進入睡眠模式時，SR8-TB2 的風扇與電源指示燈皆為停止及休眠狀態，直至喚醒時才會啟動風扇及電源指示燈。
3. 若硬碟已在其他磁碟陣列產品存取資料或設定 RAID MODE 過，建議還原成 JBOD 模式後再應用於 SR8-TB2，以避免產生無法讀取硬碟問題。



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