

InTANK iR2823 / iR2824

User Manual

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Introduction

Thank you for purchasing RAIDON products. This User Manual will introduce you the InTANK iR2823 / iR2824 storage product. Before using your iR2823/iR2824, please read it thoroughly. Although all information contented in this User Manual had already been carefully verified before publishing, however, the actual product and its specification will be based upon the time of delivery from RAIDON. Any update to the product or its relevant information may be listed on www.raidon.com.tw. Product is subjected to change without prior notifications.

If you have any question regarding to the product you purchased, or you would like to know the latest product information, User Manual's update, please contact to your local supplier or visit to www.raidon.com.tw for further information.

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1. Package Contents and Product Views

Open the package and you should find the following parts:

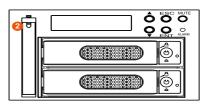
iR2823 / iR2824
iR2823 / iR2824 (with removable drive tray enclosed x3)
SATA Cable x 2
Screws & Keys
Quick Installation Guide x1

- Please check the product and accessories for any defect or missing parts. If you have any questions, please contact your product supplier.
- Please visit the official website (www.raidon.com.tw) to download drivers and other related resources.

Product View, Front and Back

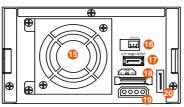
iR2824 Front view

iR2823 Front view



- 1. 2.5" HDD status indicator LED
- 2. 2.5" HDD tray key lock
- 3. HDD tray ejection
- 4. 2.5" HDD tray handle
- 5. LCD Display
- 6. UP/DOWN Button
- 7. ESC Button
- 8. Enter Button
- 9. Mute Button
- 10. Power Failure Indicator

Rear view



- 11. 3.5" HDD tray key lock
- 12. 3.5" HDD tray key lock
- 13. Pri HDD tray access light
- 14. Sec HDD tray access light
- 15. Cooling fan
- 16. RS232 Port
- 17. 3.5" SATA Port
- 18. 15 PIN SATA Port
- 19. 4Pin Power socket
- 20. 2.5" SATA Port

LED Indicators ·

Status	3,5" HDD tray access light Pri HDD tray access light access light	2.5" HDD tray access light	Fail LED	Buzzer
Power On	Blue light always on			
Stabdby	Blue light always on	Blue light always on		
HDD Failure	Red light always on	Blue light always on	Red light always on	On
Access	Blue and Purple light flashing	Blue light flashing		
Rebuilding (Source)	Blue light always on	Blue light always on		
Rebuilding (Target)	Red light flashing	Blue light always on		
Fan Failure	Blue light always on	Blue light always on	Red light always on	On
Over Heat (≥50°C)	Blue light always on	Blue light always on	Red light always on	On

2. Operation Information

Operating Temperature : $0 \sim 40 \,^{\circ}\text{C}$ (32 $\sim 104 \,^{\circ}\text{F}$) Storage Temperature : -10 ~ 70 °C (14 ~ 158 °F)

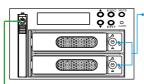
Line Voltage: 5V DC

3. Hardware Requirements and Precautions

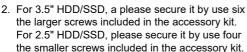
- 1. Computers or servers must be with SATA I, SATA II, or SATA III interface.
- 2. Hard drive must be with SATA I, SATA II, or SATA III interface.
- 3. The independent drive at the top cannot be set into RAID mode with primary or secondary drive. It is an independent drive.
- 4. You are strongly advised to set the storage mode before using your iR2823/iR2824. (The default setting is the RAID 1.)
- 5. Once the drive mode configuration has been completed, re-configuration using the same hard drives to set the drive mode will result in complete data loss. If you must change the drive mode, make sure to backup all data prior to the mode change.
- A reboot is required after adding or changing RAID mode to ensure that the update is completed to the new RAID mode.
- iR2823 / iR2824 product allows user to simultaneously use the two different hard drives from two different manufactures. However, if the user expects a better efficiency, we strongly recommend the user to use the two hard drives from the same manufacturer.
- 8. Please make sure that the two hard drives are free from bad blocks or defects prior to installation in order to avoid system crashes or data loss.
- 9. The actual storage capacity of iR2823 / iR2824 recognized by the system may differ from the total capacity stated on the hard drives combined once the drives have been formatted.
- 10.It is highly recommended for user to back up important data contained within the iR2823 / iR2824 unit on a regular basis or whenever the user feels necessary to a remote or a separate storage device. RAIDON will not be responsible for any lost of data caused during the use of the unit or the recovery of the data lost.

4. Hardware Installation Procedure

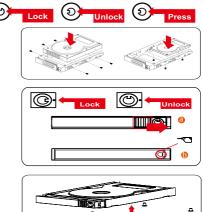
Please follow the instructions below to complete the hardware installation.

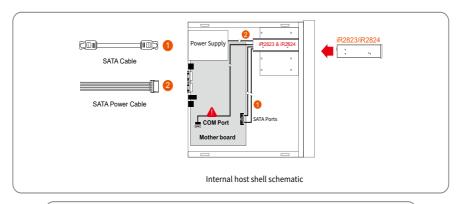


1.For the 3.5" HDD tray, please use the key included in the accessory kit to unlock the HDD tray key lock, and then press the HDD tray key lock. The removable drive tray will pop open and extract the removable drive tray.



- For the 2.5" HDD tray, please use the key included in the accessory kit to unlock the 2.5" HDD tray key lock and push the HDD eject button to the right, the 2.5" HDD tray handle will pop up to remove the tray.
 - **b**Use the ejector pin included in the accessory kit to eject the HDD enclosure handle, and then pull tray handle to remove it.
- 4. Install the 2.5-inch hard disk and secure it with the small screws included in the 4 parts package.







RS232 Port and RS232 Cable: Provides hardware status monitoring to industrial control system or IPC via RS232. If more information are required, please contact **supporting@raidon.com.tw**.

- * Note:
- We do not recommend users to disassemble the device without proper instructions and authorization. The manufacture warranty will not cover the damages caused by unauthorized disassembling.
- To prevent the device from malfunction, please make sure the device is connected with a direct and dedicated power connection of a stable power input.
- After unlocking the HDD tray key lock with the key attached to the accessory, push the HDD tray ejection to the right and the removable drive tray will pop open to remove the removable tray.

5. RAID Mode Setting

After placing your two hard disks, turn on power and press UP Button, you are with the RAID Setting mode. (Since the default setting is RAID 1 mode by factory, you do not have to reset RAID if you want to use your iR2823 / iR2824 with RAID 1 mode.)

- 1. RAID 1 mode
 - Place two new hard drives into iR2823/iR2824.
 We would strongly suggest you to use two identical hard drives to get the maximum memory capacity. And if the capacities of your two hard drives are difference, iR2823 / iR2824 only recognizes the memory capacity at the small capacity hard drive.
 - 2). Under RAID 1 mode, two hard drives will have the identical information as one from its mirroring feature, therefore, even though one and only one of the two hard drives failed, iR2823 / iR2824 will still work fine and properly. Once you replace the failed hard disk with a new one, iR2823 / iR2824 will automatically do rebuilding the data from the good one to the new hard disk.

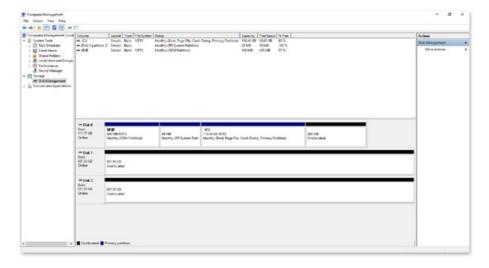
2. RAID 0 mode

- Place two new hard drives into R2823 / iR2824.
 We would strongly suggest you to use two identical hard drives to get the maximum memory capacity. And if the capacities of your two hard drives are difference, iR2823 / iR2824 only recognizes the memory capacity at the small capacity hard drive.
- Under RAID 0 mode, the total memory capacity of iR2823 /iR2824 would be double from the small capacity hard drive. And also, RAID 0 mode will perform an excellent efficiency from its high data transfer rate for user to read & write data.

6. Computer Setup

When the hardware setup for iR2823 / iR2824 is complete, you are now ready to turn the machine on. After the hardware installation is complete, the iR2823 / iR2824 will be treated as one single hard drive. When the computer is turned on, the system will retrieve the following information.

- 1. Device Manager Utility of Window OS will automatically detect the hard drive(s).
- 2. You can choose to format the hard drive by using the Disk Management tool of the operating system before using the iR2823/iR2824.



At this point, the installation process is completely finished. The user can freely retrieve and save data to iR2823 / iR2824 just like retrieving and saving data to a regular hard drive. If the user has any problem during the operation, please refer to the Question & Answer (Q&A) section in Appendix.

7. Hard Disk Status on LCD Screen

1. Booting and Normal status.

RAIDON RAIDbox2 RAID-1 vxxxxxx.x Pri HDD : OK Sec HDD : OK

2. Over Heat (≥50° C)

Pri HDD : OK Sec HDD : OK

Т

3. Fan Failure

Pri HDD : OK F Sec HDD : OK

4. RAID 1 Degraded : Primary hard drive is failure "X" or missing "M" , but secondary hard drive is normal.

RAID-1 degraded Pri : X Sec : O RAID-1 degraded Pri : M Sec : O

5. RAID 1 Failure : Primary and secondary hard drives are failure "X" or missing "M" .

RAID-1 failure Pri : X Sec : X RAID-1 failure Pri : M Sec : M

6. RAID 1 Failure: Double Source

RAID-1 failure Double Source

7. RAID 0 Failure: Primary hard drive is failure "X" or missing "M", but secondary hard drive is normal.

RAID-0 failure Pri : X Sec :O RAID-0 failure Pri : M Sec :O

8. Rebuilding

Rebuilding Sec → Pri 32%

8. Data Rebuilding Operation

The Hot Swappable hard drive and Auto Rebuilding features are available.

Off-line Back up: When the data is stored in iR2823/IR2824, user can remove one of the hard drives as back up drive for data such as system operation file, secured files, seldom modified files or image and music files. The user can periodically insert the hard drive back into iR2823 / iR2824 to execute automatic backup to protect the system from being hit by computer virus or to avoid the risk of having both hard drives failing at the same time.

When one of the two hard drives fails in iR2823/IR2824, it will issue an alert of a hard drive failure message in both LCD display and the monitoring software. User can remove the failed hard drive from the system while the system is still in operation without shutting down the machine. If the failed hard drive is replaced shortly, the system will automatically execute the Auto Rebuilding function without affecting the system operation and also any operation command from the user.

When the iR2823 / iR2824 detects one hard drive missing or failure, the Buzzer starts BEEPING and the LCD displays the following messages :

RAID-1 degraded Pri : X Sec : O

After replacing a new hard disk with the failed one, LCD displays the following messages:

Pri HDD : OK Sec HDD : Insert Pri HDD :Insert Sec HDD : OK

After few seconds from your inserting a new hard drive, LCD displays the data rebuilding progress:

Rebuilding Sec → Pri 32% Rebuilding Pri → Sec 32%

When iR2823 / iR2824 completes its rebuilding, LCD again displays the following messages:

Pri HDD : OK Sec HDD : OK

9. GUI Monitoring Software and Firmware Update

Users can download the GUI software from the website to monitor the status of the product.

1. System Status:

This GUI automatically detects your iR2823 / iR2824 and reveals relative information accordingly.



2. Firmware Upfrade:

You may update the Firmware via this GUI, to just simply click on the "Load" button to locate the firmware file to proceed. After completing the update, you may restart the power to work with the new firmware

X Caution: Any random firmware update may cause the malfunction at your iR2823/iR2824, We strongly recommend you not to change/
 upgrade



iR2823 / iR2824 firmware if still works properly.

3. Email Notification

Please first set up an e-mail address for the notification of a malfunction drive or the removed drive.

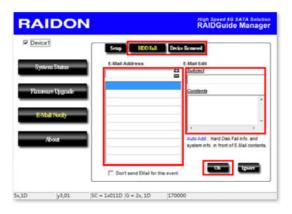
3-1 Setup

- 1). Select an Outgoing SMTP and write down your e-mail name and address.
- If it requests a password, select an option SMTP Login Authentication, and key-in the password.
- 3). When completing the configuration, click on the "OK" button to save.
- X Device must be in the operation states during configuration works.



3-2 HDD Failure / Device Removed

- 1). Insert your e-mail address as the receiver for notification, and click on "+" to add the e-mail address onto the Notification List. (Maximum up to 10 e-mail addresses)
- 2). Key-in the Subject title and contents in the columns of "Subject" and "Contents".
- 3). When completing the configuration, click on "OK" button to save.
- * Device must be in the operation status during configurations works.



The GUI Management Software Version:



10. Questions & Answers

Unstable system after installing iR2823/iR2824

- Q1. After installing iR2823/iR2824, we are unable to start the computer or the computer doesn't recognize iR2823/iR2824.
- A: 1. Please check whether if the readings of iR2823 / iR2824 LCD appears normal.
 - Please check whether if the SATA Cable properly connects to the computer and whether if the two hard disks are functioning properly.
 - If all the devices work properly but user is still unable to start the computer, it might be the system incompatibility problem. If such incompatibility takes place, please contact to our Customer Service Department to supporting@raidon.com.tw.
- Q2. Computer works fine, but iR2823 / iR2824 doesn't perform right in reading/writing messagesproperly.

Please first check whether if iR2823 / iR2824 is executing the auto REBUILDING work. If it works for REBUILDING, your iR2823 / iR2824 is a good device. And if it doesn't, please follow the following two ways to find out the possible root cause:

- Please examine if your SATA cable is too long and will attenuate signal, or whether if the Two SATA cables fail to meet the cable specification requirements.
- 2. If the two cables meet the requirements at both the specification & length, please turn off the computer, remove the two hard drives from iR2823/iR2824, and directly connect the hard drives to computer, format them, and then try to read/write data into them. You may find out that the hard disk (s) are with unacceptable bad sector quanty.

Hard Disk Drive (HDD) Failure

- Q1. Under the Mirror mode (RAID 1), what will be the total storage capacity when adding a brand new HDD?
- A: 1. The total storage capacity at your iR2823 / iR2824 is determined by the storage capacity of the primary HDD installed during the initial usage.
 - The storage capacity will not be increased even though you replace a larger capacity new HDD.
- Q2. Why does the error message appear when I install the second HDD?
- A: The storage capacity of the new replaced HDD must be larger than the first HDD. Otherwise, iR2823 / iR2824 is unable to perform REBUILDING work.

About the Auto Rebuilding Function

- Q1. What will happen if we turn off the computer power while iR2823 / iR2824 is still executing auto REBUILDING work?
- A: Under the Mirror mode (RAID 1), if computer power is off during REBUILDING work, iR2823 / iR2824 will still remember the percentage of its REBUILDING work, and then resume it back to its REBUILDING work while computer power is back on.
- Q2. Is it possible to lose data during the REBUILDING work?
- A: The REBUILDING work will automatically duplication data from one sector to another sector. Technically speaking, the data should not be lost during its REBUILDING work. However, if the original HDD is detected with too many bad sectors during the REBUILDING work, iR2823 / iR2824 will make hypothetical duplication instead of treating the bad sectors as HDD failure. Therefore, the data stored in the bad sectors could potentially be lost during REBUILDING work.

關於這份手冊

感謝您使用 RAIDON 的產品。本手冊將介紹 InTANK iR2823/iR2824 產品。在您開始使用 iR2823/iR2824 系列產品前,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.raidon.com.tw 網站查詢·本公司 將不另行通知。若您想獲得 RAIDON 最新產品訊息、使用手冊、韌體或對 RAIDON 產品有任何疑問,請您聯絡當地供應商或到 www.raidon.com.tw 取得相關訊息。

本手冊相關產品內容歸銳銨科技股份有限公司版權所有

1. 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:

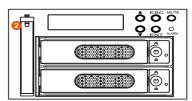
iR2823/iR2824
iR2823/iR2824 產品本體 x1(內含抽取盒 x3)
SATA 連接線 x2
螺絲及鑰匙
快速安裝導引 x1

- 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。
- 請前往官網 (www.raidon.com.tw) 下載驅動程式以及其餘相關資源。

正面與背面示意圖

iR2824 前視圖 (<u>©</u> Sec 硬碟

iR2823 前視圖



- 1. 2.5" 硬碟讀取燈
- 2. 2.5" 硬碟鑰匙孔
- 3. 2.5" 頂出按鍵
- 4. 2.5" 硬碟抽取盒把手
- 5. 液晶顯示面板
- 6. 選擇鍵 (UP/DOWN)
- 7. 取消鍵 (ESC)
- 8. 確認鍵 (Enter)
- 9. 靜音按鍵
- 10. 電源 / 故障顯示燈



- 11. 3.5" 硬碟抽盒把手
- 12. 3.5" 硬碟卡榫按鍵
- 13. 主硬碟讀取燈
- 14. 次硬碟讀取燈 15. 散熱風扇
- 16. RS232 埠
- 17. 3.5" 硬碟 SATA 連接埠
- 18. SATA 15Pin 電源輸入埠
- 19. 4Pin 電源輸入埠
- 20. 2.5" 硬碟 SATA 連接埠

燈號一覽表 :

狀態	3.5" 硬碟讀取燈 主硬碟 次硬碟 讀取燈 讀取燈	2.5" 硬碟 讀取燈	故障顯示燈	蜂鳴器
開機	藍燈恆亮			
待機	藍燈恆亮	藍燈恆亮		
硬碟故障 (RAID降級)	紅燈恆亮	藍燈恆亮	紅燈恆亮	鳴叫
資料存取	藍紫燈閃爍	藍燈閃爍		
資料重建 (Source)	藍燈恆亮	藍燈恆亮		
資料重建 (Target)	紅燈閃爍	藍燈恆亮		
風扇故障	藍燈恆亮	藍燈恆亮	紅燈恆亮	鳴叫
溫度過高	藍燈恆亮	藍燈恆亮	紅燈恆亮	鳴叫

工作温度:0~40℃(32~104℃) 儲存溫度:-10~70°C(14~158°F)

工作電壓: 5V DC

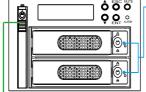
Press

3. 硬體需求與注意事項

- 1. 電腦或伺服器具備 SATA II、SATA II 或 SATA III 介面。
- 2. 具備 SATA I、SATA II 或 SATA III 介面的硬碟。
- 3. 最上方的獨立硬碟無法與主、次硬碟共同設定 RAID 模式,為功能獨立的硬碟。
- 4. 強烈建議使用 iR2823 / iR2824 前先設定好 RAID 模式 (預設值是 RAID 1)。
- 5. 一旦使用模式確認後,使用相同的硬碟進行模式切換將會導致資料遺失.如果需要進行模式變更, 請於變更前先進行資料備份。
- 6. 在新增或變更 RAID 模式後需重新啟動,以確保完成更新為新的 RAID 模式。
- 7. 本系統允許使用不同廠牌的硬碟。但如果要獲得更好的效能,我們強烈建議使用相同廠牌型號的硬碟。
- 8. 安裝硬碟前請先確認所使用的硬碟並無壞軌或是其他問題,以免導致系統指毀或資料遺失。
- 9. 硬碟格式化後·iR2823 / iR2824 的總使用儲存容量或許會與硬碟容量加總後的有所不同。
- 10.強烈建議除了使用 iR2823 / iR2824 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,雙重備援您重要的資料。若您儲存在 iR2823 / iR2824 的資料損毀或遺失,RAIDON將不負任何的責任。

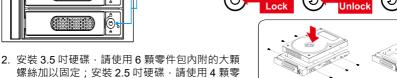
4. 硬體安裝

請參照以下步驟完成硬體安裝

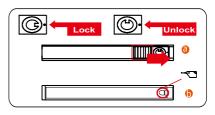


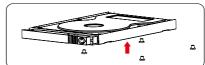
件包內附的小顆螺絲加以固定。

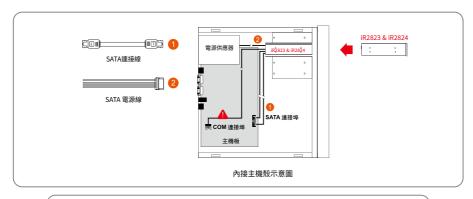
1.3.5 可硬碟抽盒的部份,請使用零件包內附的鑰匙解鎖卡榫按鍵, 再將按下卡榫按鍵,硬碟抽取盒把手便會彈開,即可取出抽取盒。



- 3. 2.5 吋硬碟抽盒的部份·請使用零件包內附的鑰匙 解鎖硬碟抽取盒鎖·圖將頂出按鍵向右推移·硬 碟抽取盒把手便會彈開 (D)頂針插入硬碟抽取盒頂 針孔後·抽取盒門門將會輕彈開啟,即可取出抽取 盒。
- 4. 安裝 2.5 吋硬碟,請使用 4 顆零件包內附的小顆螺絲加以固定。將硬碟安裝到抽取盒上,將抽取盒放入主機內並關上把手。
- 將產品安裝於電腦機殼上的 CD-ROM 位置·並使用配件包裡的螺絲固定·並連接 SATA 連接線與 SATA 電源線。(詳見下圖)









RS232連接埠和RS232連接線:提供工控產業或IPC產業透過RS232進行硬體狀態偵測,如有需要可向銳銨客服人員 supporting@raidon.com.tw索取相關資料。

X Note :

- 1. 我們不建議使用者在未經授權的情況下自行拆卸系統。如未經授權自行拆卸所導致的損毀將不在保固之列。
- 2. 為了防止系統發生問題·請確保電源供應是穩定且獨立的。

步驟 5 硬體安裝完成。一旦開啟電腦,您的作業系統會自動辨識所裝置好的硬碟。如果您的硬碟是必須被格式化的,請依照電腦的作業系統進行硬碟格式化步驟。當完成硬碟格式化後,硬碟便可以進行資料讀寫。

5. 設定 RAID 層級

將兩顆硬碟放入後·開機時按▲鍵即可進入 RAID 的切換畫面。(出廠預設值為 RAID 1·若使用 RAID 1 則不須更動。)

1 RAID 1 模式

- 1). 將兩顆新的硬碟放入iR2823/iR2824中。強烈建議您使用兩顆相同的硬碟·以便取得對等的容量。如果兩顆硬碟的容量不同·iR2823/iR2824將會以小容量的硬碟為依據。
- 2). RAID 1 模式下,兩顆硬碟是鏡射關係因此擁有相同的資料,因此有一顆硬碟損毀仍然可以正常運作。當放入新硬碟取代損毀硬碟後,系統會自動將資料重建到新的硬碟。

2.RAID 0 模式

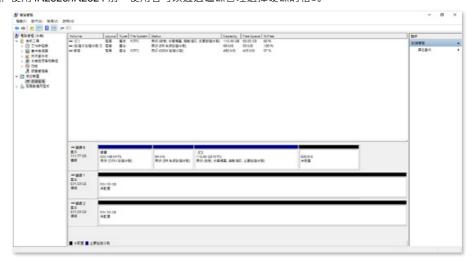
- 1). 將新的硬碟放入 iR2823/iR2824 中。強烈建議您使用兩顆相同的硬碟·以便取得對等的容量。如果兩顆硬碟的容量不同·iR2823/iR2824 將會以小容量的硬碟為依據。
- 2). RAID 0 模式下:兩顆硬碟的容量會被加總成一個大儲存容量:並且提供更佳的存取效能。

6. 雷腦設定

當 iR2823/iR2824 的硬體安裝完成,即可準備進行開機動作。

硬體安裝完成後·將 BIOS 的硬碟偵測設定為自動·iR2823/iR2824 將會被視為如同一顆硬碟一般。當電腦開機後·系統會顯示下列偵測訊息:

- 1. 安裝在 iR2823/iR2824 中的硬碟能夠被 Windows 的裝置管理員偵測到。
- 2. 使用 iR2823/iR2824 前,使用者可以透過磁碟管理選擇硬碟的格式。



到此完成整個安裝程序。使用者可以如同存取一般硬碟般的使用 iR2823/iR2824。如果使用上仍有問題、請參閱附件的 Q&A。

7. 訊息顯示

1. 開機與正常待機狀態

RAIDON RAIDbox2 RAID-1 vxxxxxx.x Pri HDD : OK Sec HDD : OK

Т

2. 溫度過高 (≥50° C)

Pri HDD : OK Sec HDD : OK

3. 風扇故障

Pri HDD : OK F Sec HDD : OK

4. RAID 1 降級 · Pri 硬碟損毀" X" 或沒裝" M" 而 Sec 硬碟仍然可正常存取

RAID-1 degraded Pri : X Sec : O RAID-1 degraded Pri : M Sec : O

5. RAID 1 損毀 · Pri 與 Sec 硬碟皆損毀" X" 或沒裝" M"

RAID-1 failure Pri : X Sec : X RAID-1 failure Pri : M Sec : M

6. RAID 1 損毀 · Source 碟重複

RAID-1 failure Double Source

7. RAID 0 損毀 · Pri 硬碟損毀" X" 或沒裝" M" 而 Sec 硬碟仍然正常

RAID-0 failure Pri : X Sec :O RAID-0 failure Pri : M Sec :O

8. 資料重建

Rebuilding Sec → Pri 32%

8. 資料重建功能說明

具備硬碟熱抽拔與自動資料重建功能。

離線備份。當資料儲存在 iR2823/iR2824 後,使用者可以移除其中一顆硬碟當作資料備份碟,確保相關資料例如作業系統檔案、加密文件、較少存取的檔案甚至影音檔案的安全。使用者可以定期的將硬碟放回 iR2823/iR2824 執行自動資料重建,確保系統不會被病毒攻擊或是減少兩顆硬碟同時損毀的風險。

當 iR2823/iR2824 中的其中一顆硬碟損毀,系統會透過 LCD 顯示幕與監控軟體發出警示。使用者可以在系統仍在運作下,無需關掉機機器即可將損毀的硬碟取出。一但替換損毀硬碟後,iR2823/iR2824 即會在不影響系統運作的情況下自動開始進行資料重建,使用者也無需對 iR2823/iR2824 下任何指令。

RAID-1 degraded Pri : X Sec : O

Pri HDD : OK Sec HDD : Insert Pri HDD :Insert Sec HDD : OK

當 iR2823/iR2824 偵測到硬碟遺失或是損毀,蜂鳴器會啟動,LCD 螢幕會顯示以下訊息:

Rebuilding Sec → Pri 32% Rebuilding Pri → Sec 32%

當移除捐毁的硬碟並替換一顆新硬碟後,如果新硬碟有正確安裝,LCD 螢幕會顯示以下訊息:

Pri HDD : OK Sec HDD : OK

安裝新硬碟後幾秒鐘·LCD 螢幕會顯示資料重建的進度:

當資料重建完成後,LCD 螢幕會顯示以下訊息:

9. GUI 功能說明與韌體更新

使用者可以從網站下載來安裝 GUI 軟體,藉此監控產品的狀態。

1. 系統狀態

GUI 會自動偵測 iR2823/iR2824 並且顯示相關資訊.



2. 韌體升級

使用者可以透過此 GUI 進行韌體升級。只需簡單的點選 "Load" 指定韌體檔案位置後即可進行升級。升級過程或許需要重新啟動系統來完成整個升級程序。

※ 注意:任意更新韌體有可能導致系統運作不正常。強烈建議如果系統運作正常情況下不要進行韌體升級。



3. E-Mail 通知

設定 e-mail 帳號來收取系統問題或被移除通知。

3-1 設定

- 1). 填入 e-mail 相關名稱與完整位置,以及 SMTP 的相關資訊。
- 2). 如果需要密碼,請勾選"SMTP Login Authentication"並輸入密碼。
- 3). 相關資訊填寫完成後,點選 "OK"。

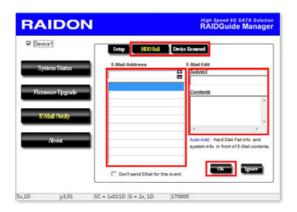
※ 設定過程中·系統必須維持在正常運作狀態。



3-2 硬碟指铅 / 裝置被移除

- 在 E-Mail Address 欄位填入要收取通知的 e-mail·點選 "+" 即可增加另一組。(最多可填入 10 組 e-mail)
- 2). 在 "Subject" 與 "Contents" 填入 e-mail 訊息的主旨與內容。
- 3). 相關資訊填寫完成後,點選 "OK"。

※ 設定過程中·系統必須維持在正常運作狀態。



4. 關於 GUI 軟體版本



10. 常見問題

連接 iR2823/iR2824 後系統不穩定

- Q1. 安裝完 iR2823/iR2824 後,電腦無法開機或是電腦認不到 iR2823/iR2824。
- A: 1. 請確認 iR2823/iR2824 上的 LCD 螢幕顯示正常。
 - 2. 請確認 SATA 線有正確的跟電腦連接且硬碟是可正常運作。
 - 如果一切正常但使用者還是無法正常開機,這有可能是因為硬體上的相容性問題。如果是硬體 上相容性問題,請連繫我們的客服部門。
- Q2. 使用時,電腦運作正常但是 iR2823/iR2824 的存取效能不正常。
- A: 請確認 iR2823/iR2824 是否正在資料重建。
 - 1. 請確認所使用的連接線長度,是否所使用的 SATA 線太長以及是否合乎標準規範。
 - 2. 如果線材的長度與規格都沒問題,請關閉 iR2823/iR2824 並取出其中的硬碟。直接接硬碟連接 到電腦並進行檢測,有可能是硬碟中的壞軌導致。

硬碟損毀

- Q1. RAID 1 模式下,如果放入一顆新的硬碟,系統的總容量會是?
- A: 1. iR2823/iR2824 的總容量是依據一開始安裝的主硬碟容量而定。
 - 2. 安裝完成後,即使更換一顆較大容量的硬碟,儲存容量也不會增加。
- Q2. 為何當我安裝第二顆硬碟時出現錯誤訊息?
- A: 第二顆硬碟的容量必須大於第一顆硬碟, 否則 iR2823/iR2824 不會進行資料重建。

關於資料自動重建功能

- Q1. 如果當 iR2823/iR2824 在資料重建時關掉電腦電源,會不會怎樣?
- A: 在 RAID 1 模式下資料重建過程中關閉電源·控制器會自動記憶已完成的百分比·當再度開啟電源後·重建過程會從斷電前的百分比繼續。
- Q2. 資料重建過程中是否有可能會遺失資料?
- A: 資料重建功能是 Sector to Sector 的拷貝方式。技術上來說,資料並不會在資料重建過程中遺失。但是,如果資料重建過程中,原本的硬碟 (Source) 被偵測到壞軌,iR2823/iR2824 將會採用模擬方式而不會因此壞軌認為硬碟損毀。因此,這種情況下儲存在壞軌的資料就有可能會遺失。

