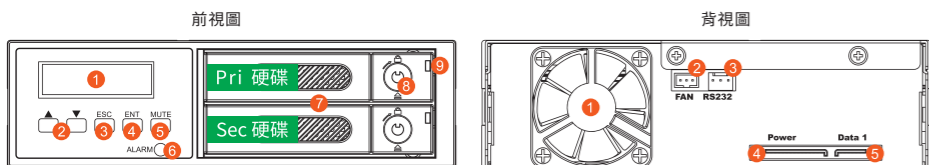


RAIDON

iR8022 快速安裝導引

產品示意圖與配件表



- 前視圖
1. 液晶顯示面板
 2. 選擇鍵(UP/DOWN)
 3. 取消鍵(ESC)
 4. 確認鍵(Enter)
 5. 靜音按鍵(MUTE)
 6. 電源 / 故障顯示燈
 7. 硬碟托盤手把
 8. 硬碟卡榫按鍵
 9. 硬碟讀寫燈

- 背視圖
1. 風扇
 2. 風扇連接埠
 3. R232 連接埠
 4. SATA 15Pin 電源輸入埠
 5. SATA 7Pin 資料連接埠

打開包裝外盒後，包裝內容應包含下列組件：

產品配件表



- 請先確認相關配件與產品本身是否有受損或是缺少配件，若有任何疑問，請與您的經銷商或業務人員聯絡。
- 請前往官網 (www.raidon.com.tw) 下載說明書、驅動程式以及其餘相關資源。

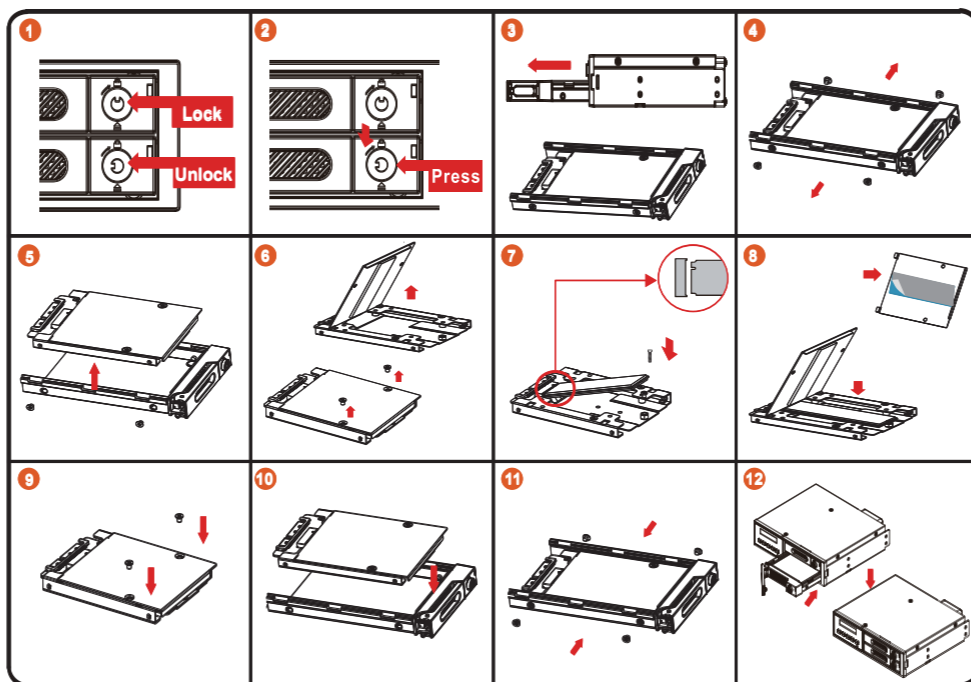


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硬體安裝

1. 解開硬碟托盤鎖。
2. 按下硬碟卡榫按鍵。
3. 抽出 M.2 SATA Bridge 托盤組。
4. 將 M.2 SATA Bridge 托盤組兩側的螺絲取出。
5. 把 M.2 SATA Bridge 由托盤取出。
6. 取下上蓋的 2 顆螺絲，打開上蓋。
7. 插入 M.2 並鎖上螺絲。
8. 撕下上蓋裡散熱片的離型紙，蓋回上蓋。
9. 鎖上螺絲。
10. 把 M.2 SATA Bridge 放進托盤。
11. 鎖上兩側螺絲。
12. M.2 SATA Bridge 托盤組安裝回 iR8022。



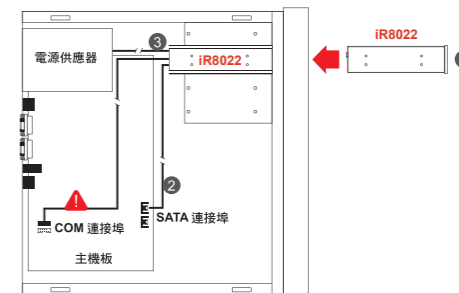
2

13. 將主體安裝於電腦機殼上的 CD-ROM 位置，請使用配件零件包的螺絲固定，並連接 SATA 連接線與電源線。



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，如有需要可向經銷商/服務人員 supporting@raidon.com.tw 索取相關資料。

13



14. 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。

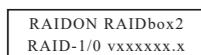
燈號說明

狀態	系統警示燈	硬碟指示燈	蜂鳴器
風扇故障	紫燈恆亮	—	鳴叫
溫度過高(≥50°C)	紫燈恆亮	—	鳴叫
硬碟故障	紫燈恆亮	紅燈恆亮	鳴叫
待機	藍燈恆亮	藍燈恆亮	—
格式化 / 資料存取	藍燈恆亮	藍紫燈交互閃爍	—
Rebuilding-Source	藍燈恆亮	藍燈恆亮	—
Rebuilding-Target	藍燈恆亮	紅燈閃爍	—

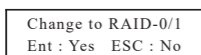
3

設定磁碟陣列

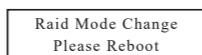
1. 將兩顆硬碟放入後，開機時按 ▲ 鍵即可進入 RAID 的切換畫面。(出廠預設值為 RAID 1，若使用 RAID 1 則不須更動。)



此刻按 ▲ 鍵



確定變更按 Ent
不要變更按 Esc



Raid 已切換成功
請重新啟動電源

2. RAID 1 模式 (default)

- 1) 放置 2 顆新硬碟在 iR8022。
- 2) 兩顆硬碟進行同步寫入達到備份效果，其中一顆硬碟損壞仍可繼續運作，將損壞硬碟更換新硬碟後將會自動進行資料重建；當裝入的硬碟為 1 大 1 小時，iR8022 會將大容量的硬碟當成小容量的硬碟。

使用 RAID 1 的硬碟容量 = [容量小的硬碟機容量]

- 例：
1TB x2 硬碟機 = 1TB
1TB x1 硬碟機 + 500GB x1 硬碟機 = 500GB

3. RAID 0 模式

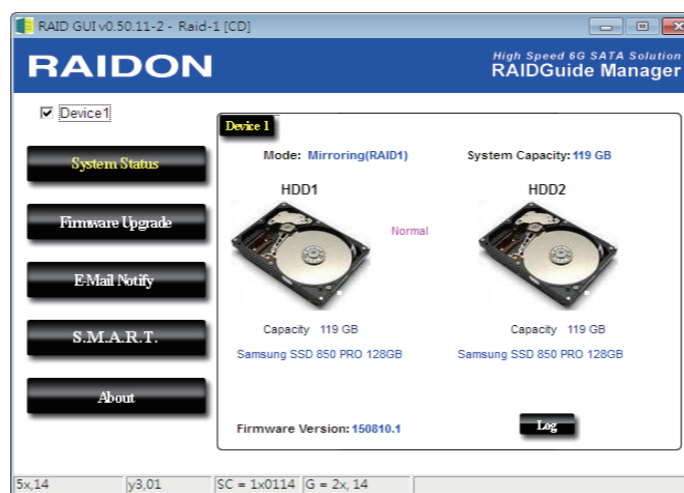
- 1) 放置 2 顆新硬碟在 iR8022。
- 2) 將 2 顆 2.5 吋硬碟容量加總，讀取效率會加快；當裝入的硬碟為 1 大 1 小時，iR8022 會將大容量的硬碟當成小容量的硬碟。

使用 RAID 0 的硬碟容量算法 = [硬碟機數] x [容量小的硬碟機容量]

- 例：
1TB x2 硬碟機 = 2TB
1TB x1 硬碟機 + 500GB x1 硬碟機 = 1TB

4

啟用 RAIDGuide 軟體的畫面如下



RAIDGuide 可用來觀察 RAID 狀況，以及更新韌體，可於官網下載頁面中找到相關程式。

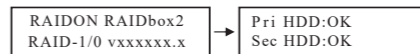


隨意的更新韌體將有可能導致您的系統無法正常運作，若您的系統運作一切正常，建議您不必進行韌體更新。若您有韌體更新上的疑慮，請先聯絡銳銳科技的技術服務人員，或來信 supporting@raidon.com.tw。

5

LCD 顯示的訊息內容

1. 開機與正常待機狀態



2. 硬碟損毀



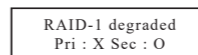
3. 溫度過高(≥50°C)



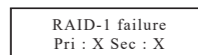
4. 風扇故障



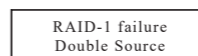
5. RAID 1 降級: Pri 硬碟機損毀，而 Sec 硬碟機正常



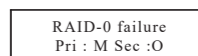
6. RAID 1 損毀: Pri 與 Sec 硬碟皆損毀



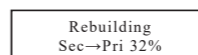
7. RAID 1 損毀: 雙 Source 碟



8. RAID 0 損毀: Pri 硬碟機遺失，而 Sec 硬碟機正常



9. 資料重建



當「T」出現時，是代表系統過熱的警告，但是不至於影響正常資料傳輸，只要改善環境溫度，就可恢復正常。

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如果您對 銳銳科技 的產品有任何疑問，或是想獲得最新產品訊息、使用手冊或韌體，請您聯絡 supporting@raidon.com.tw，我們將儘速回覆您。

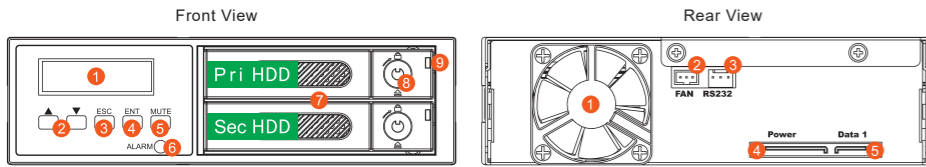
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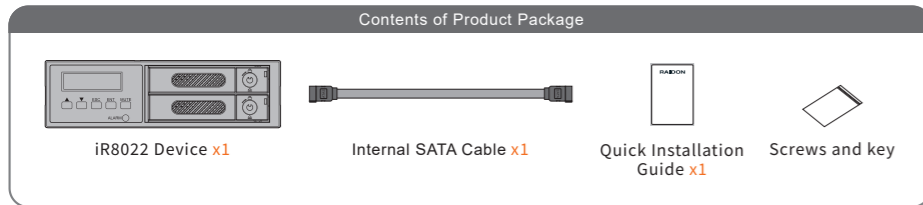
iR8022-Quick Installation Guide

Product Diagrams and the Contents of Product Package



- | | | |
|-------------------|----------------------------|---------------------------|
| 1. LCD Display | 6. Power Failure Indicator | 1. Cooling Fan |
| 2. UP/DOWN Button | 7. HDD Tray Handle | 2. 3-pin Fan Connector |
| 3. ESC Button | 8. HDD Tray Key Lock | 3. RS232 Connector |
| 4. Enter Button | And Tray Open Button | 4. 15-pin Power Connector |
| 5. MUTE Button | 9. HDD Access Indicator | 5. 7-pin SATA Connector |

After you open the outer package, make sure that the following items are contained in the package:



- Please check the included parts and the product itself for any damage or missing parts. If you have any questions, please contact the retailer or sales representative.
- Please visit the official website (www.raidon.com.tw) to download user manuals, drivers and other related resources.

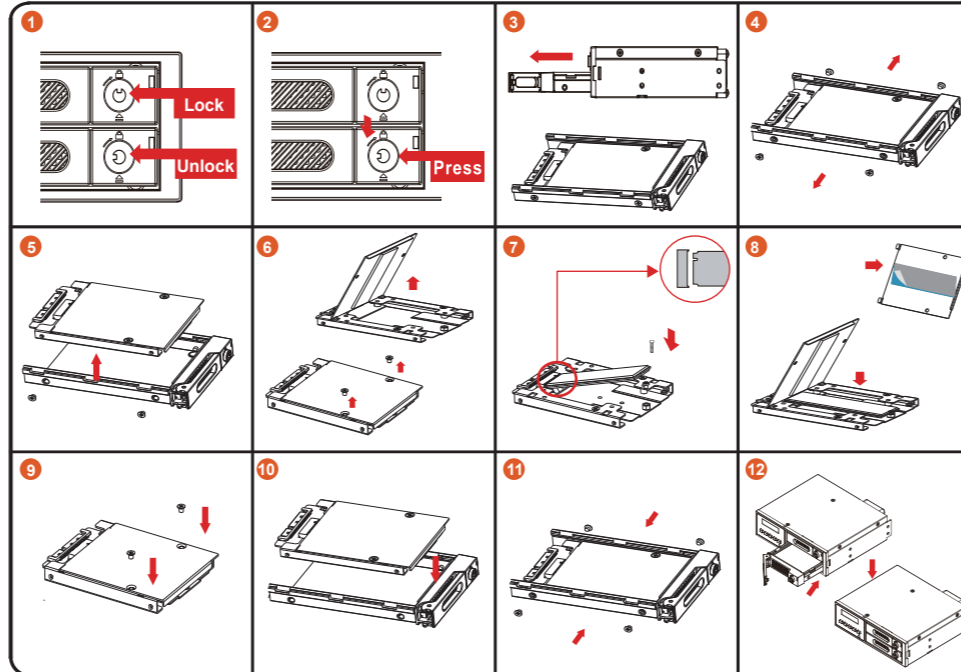


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1

Hardware Installation

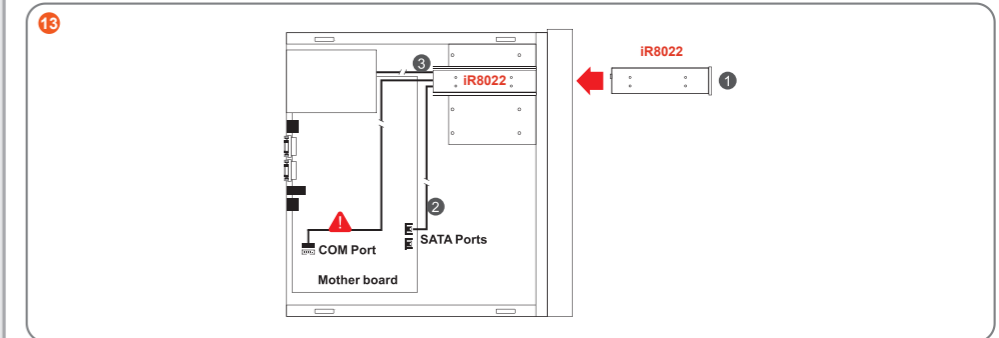
- Unlock the M.2 SATA Bridge Tray Key Lock and tray open button.
- Press HDD Tray Key Lock and tray open button.
- Pull out the M.2 SATA Bridge Tray.
- Remove the screws.
- Remove the M.2 SATA Bridge.
- Remove the screws of the upper cover of the M.2 SATA Bridge. Open the upper cover.
- Insert M.2 and fix the screw.
- Remove the paper from the heat sink in the upper cover and put the upper cover back.
- Fix the screws.
- Install M.2 SATA Bridge in a Tray.
- Fix the screws.
- Install the M.2 SATA Bridge tray back into the iR8022.



2

- Install device into one of the CD-ROM bays with screws from the accessory kit. Then properly connect SATA cable and power cable from your system to the device.

NOTE RS232 Port: For industrial control system or IPC to monitor the hardware status. More information, please contact your sales window or supporting@raidon.com.tw



- Power on your system after hardware installation is completed, and your operating system will automatically detect the hard drives from booting. Then follow the steps from your operating system to partition and format the drives when necessary, device will be ready to use once the format is completed.

LED Instruction

Status	System Indication	HDD/SSD Indication	Buzzer
Fan Failure (Stop Rotating)	Solid Purple	—	On
Overheat (≥50°C)	Solid Purple	—	On
HDD Failure	Solid Purple	Solid Red	On
Standing-by	Solid Blue	Solid Blue	—
Formating / Accessing Data	Solid Blue	Flashing Blue-Purple	—
Rebuilding (Source)	Solid Blue	Solid Blue	—
Rebuilding (Target)	Solid Blue	Flashing Red	—

3

RAID Mode Setting

- After inserting two HDDs, turn on system power, press UP/DOWN Button to choose RAID mode. (The Default Setting is RAID 1.)

RAIDON RAIDbox2
RAID-1/0 vxxxxxx.x

Press UP/DOWN Button

Change to RAID-0/1
Ent : Yes ESC : No

Please press "Ent" if you want to change it, and please press "ESC" if you want to skip it.

Raid Mode Change
Please Reboot

RAID mode is switched, turn OFF power, and then turn ON power again. RAID mode change is down.

- RAID 1 mode (Default)

- Insert two new HDDs into iR8022.
- Under RAID 1 (Mirroring) mode, each WRITE data will be simultaneously saved into two HDDs. The data in two HDDs will be exactly the same. Whenever one of the HDDs is failed, iR8022 will still work fine. And once the failure HDD is replaced by a new one, iR8022 will start REBUILDING automatically itself.

The total HDD capacity of RAID 1 mode = [capacity of the smaller capacity HDD]

For Example:
1TB x2 HDD = 1TB
1TB x1 HDD + 500GB x1 HDD = 500GB

- RAID 0 mode

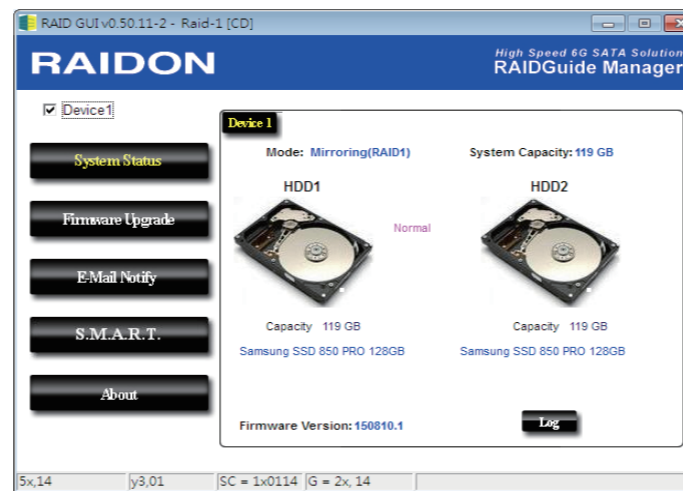
- Insert two new HDDs into iR8022.
- Under RAID 0 mode, two HDDs will work as a large HDD which provides an efficient read/write performance.

The total HDD capacity of RAID 0 mode = [HDD quantity] x [capacity of the smaller capacity HDD]

For Example:
1TB x2 HDD = 2TB
1TB x1 HDD + 500GB x1 HDD = 1TB

4

RAIDGuide Manager, the GUI Monitoring & Firmware Updating Utility



RAIDGuide can be used to observe the RAID status and update the firmware. You can find related programs on the official website download page.



Improper firmware update damage your system. We would strongly suggest you not to update firmware if your iR8022 works fine. Shall you have any question in updating firmware, please contact the technical service staff of **RAIDON Technology Inc.** or e-mail to us at "supporting@raidon.com.tw".

5

System Status with LCD Displays

- Bootling and Standing-by

RAIDON RAIDbox2
RAID-1/0 vxxxxxx.x → Pri HDD:OK
Sec HDD:OK

- HDD Failure

Pri HDD:OK
Sec HDD:FAILED
Pri HDD:FAILED
Sec HDD:OK

- Overheat (≥50°C)

Pri HDD:OK
Sec HDD:OK T

- Fan Failure

Pri HDD:OK F
Sec HDD:OK

- RAID 1 Degraded:
Primary HDD is failure, Secondary HDD is normal.

RAID-1 degraded
Pri : X Sec : O

- RAID 1 Failure:
Primary and Secondary HDDs are both failure.

RAID-1 failure
Pri : X Sec : X

- RAID 1 Failure (Double Source HDD)

RAID-1 failure
Double Source

- RAID 0 Failure:
Primary HDD is missing, Secondary HDD is normal.

RAID-0 failure
Pri : M Sec : O

- Rebuilding

Rebuilding
Sec→Pri 32%



When "T" is shown, it's an alert of system over heating, but it would still work fine. And as long as the ambient temperature is improved, system shuts off the alert.

Thank you for choosing product from **RAIDON Technology Inc.** This information in the manual has been thoroughly checked before publication, but may not conform to the product actually delivered which mean actual product specifications depend on the product shipped to you. Any update in the specifications or product-related information shall not be subject to further notice but for the latest information on the product, please visit the website as www.RAIDON.com.tw or contact us at supporting@raidon.com.tw, and we will get back to you as soon as possible.

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