

InTANK iR2622S User Manual

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Introduction

Thank you for purchasing RAIDON products. This manual will introduce the InTANK iR2622S Series. Before using your InTANK iR2622S, please read this manual thoroughly. Although all information contained in this user manual has been carefully verified before publishing, however, the actual product specification will be based on the time of delivery from RAIDON. Any updates to the product specifications or relevant information may be found on <u>www.raidon.com.tw</u>. Products are subject to change without prior notifications.

If you have any questions regarding the products of RAIDON, or you would like to know the latest product information, user manual update, or firmware update, please contact your local supplier or visit <u>www.raidon.com.tw</u> for further information.

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1. Package Contents and Product Views

Open the package and you should find the following:

iR2622S
iR2622S x 1 (with removable drive tray enclosed x 2)
SATA Cable x 1
Quick Installation Guide x 1
Screws and keys

 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 (<u>www.raidon.com.tw</u>) to download drivers and other related resources.

Product View

- 1. LCD Display
- 2. LED of failure Alarm
- 3. Pri. HDD (HDD 1) status indicator
- 4. Sec. HDD (HDD 2) status indicator
- 5. Mute Button
- 6. Removable drive tray
- 7. HDD tray key lock
- 8. HDD Access
- 1. Fan
- 2. RS232 Port
- 3. SATA Port
- 4. 15 PIN Power Connector
- 5. 4Pin Power Connector



LED Indicators :

Status	HDD 1	HDD 2	TRAY 1	TRAY 2	Fail LED	Buzzer
HDD Idle	Orange light always on	N/A	Blue light always on	Red light always on	N/A	N/A
Access	Orange light always on	N/A	Purple light flashing	Red light always on	N/A	N/A
HDD 1 Failure	N/A	N/A	Red light always on	Red light always on	Red light always on	on
HDD 2 Failure	Orange light always on	N/A	Blue light always on	Red light always on	Red light always on	on
Backup	Orange light always on	N/A	Blue light always on	Red light flashing	N/A	N/A
Fan Failure	Orange light always on	N/A	Blue light always on	Red light always on	Red light always on	on
Overheat (≥50°C)	Orange light always on	N/A	Blue light always on	Red light always on	Red light always on	on

2. Operating Information

Operating Temperature : 0 ~ 40 " C (32 ~ 104 " F) Storage Temperature : -10 ~ 70 " C (14 ~ 158 " F) Line Voltage : 12V + 5V DC

3. Hardware Requirements and Precautions

- 1. Computers or servers must be with SATA I, SATA II, or SATA III.
- 2. Hard drive must be with SATA I, SATA II, or SATA III.
- 3. 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.
- 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. 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.
- 6. The usable storage capacity of the hard disk after formatting will be less than the capacity indicated on the hard disk.
- 7. It is highly recommended for user to back up important data contained within the iR2622S 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.

- Step 1 Open the package and take out the product making sure that all the enclosed contents are not damaged or missing. Should you find damages or missing contents, please contact your supplier immediately.
- Step 2 Place the system on a stable surface. Ensure that it is well ventilated without blockage to the vent and kept away from areas near water and damage prone areas.
- Step 3 Please use the key included in the accessory to insert the HDD tray key lock and turn it 90 degrees to the left. After lightly pressing the HDD tray key lock, the removable drive tray will pop open and extract the removable drive tray.
- Step 4 For 3.5" HDD/SSD, please secure it by use six the larger screws included in the accessory kit. For 2.5" HDD/SSD, please secure it by use four the smaller screws included in the accessory kit.
- Step 5 When the hard drive installation has been completed, insert the hard drive tray into the system horizontally and secure the latch into place.
- Step 6 Use the preferred cable included to connect your computer to the relative interface connection on the iR2622S unit.



Internal host shell schematic

※ Note :

- 1. RS232 Port and RS232 Cable: Provides hardware status monitoring to industrial control system or IPC via RS232.
- 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.
- 3. 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.
- 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

5. Computer Set Up

When the hardware setup for iR2622S is complete, you are now ready to turn the machine on.

After the hardware installation is complete, the iR2622S will be treated as one single hard drive. Set the hard drive to AUTO in the computer's BIOS. When the computer is turned on, the system will retrieve the following information:

- 1. In iR2622S, the installed hard drive can be detected by the Device Manager of Computer Management for Windows.
- 2. Customers can choose to format the hard drive by using the Disk Management tool of the operating system before using the iR2622S.

omputer Management (Loc		Layout Type File System	Status	Capacity Free Space % Free		Actions	_
System Fools Tark Scheduler Event Visues Sched Folden Sched Folden Sched Folden Derice Manager Schunger Derice Manager Schunger Schunger Schules and Applications		3 Simple Basic	Heatry (lock Page File, Crais Cump, Printey Parterol) Heatry (ID) Start Patton) Heatry (ID) M Particol	170,64 (8,65,54) 89,440 (9,948) 100 % 435,M8 415,M8 97 %		Disk Management More Actiens	
	111.77 GB	創造 450 MB NTFS Healthy (CEM Partition)	99 MB Healthy (SFI System Parts Healthy (SFI System Parts	: Crash Durno, Primary Parition)	800 ME Unallocated		
	Basic 931.50 GB	931.50 GB Unallocated					

At this point, the installation process is completely finished. The user can freely retrieve and save data to iR2622S just like retrieving and saving data to a regular hard drive. If the user experiences any abnormality during the operation, please refer to the trouble shooting Q&A section in Appendix.

6. Hard Disk status on LCD screen

1. Booting and Normal status.

2. Fan Failure



3. Over Temperature (≥50°C)

Schedule Backup Pri : O Sec : R T

4. HDD1 is corrupted while HDD2 still exists.

Schedule Backup Pri : M Sec : R

5. HDD2 is corrupted or not installed while HDD1 is still accessible.

Schedule Backup Pri : O Sec : M

7. Data Rebuilding Operation

With hard disk hot-swappable and scheduled backup functions.

Offline backup. After the data is stored in the iR2622S, the user uses the secondary hard disk (HDD 2) as a data backup disk to ensure the security of related data such as operating system files, encrypted files, less accessed files, and even audio and video files. Users can put the hard disks back to the iR2622S periodically to perform automatic data reconstruction to ensure that the system will not be attacked by viruses or reduce the risk of simultaneous damage to two hard disks.

When one of the hard disks in the iR2622S is damaged, the system will send an alert through the LCD screen and monitoring software. Users can take out the damaged hard disk without turning off the machine while the system is still running.

When the iR2622S detects a hard drive missing or a hard drive failure, the Buzzer will start and the LCD display screen will display the following messages:

Schedule Backup Pri : M Sec : R Schedule Backup Pri : O Sec : M

After removing the failed hard drive and replacing with a new hard drive, if the hard drive is properly installed, the LCD display screen will display the following messages:

Schedule Backup Pri : Insert Sec : R Schedule Backup Pri : O Sec : Insert

When entering the scheduled backup time, the LCD screen will show the progress of data backup:

Schedule Backup $Pri \rightarrow Sec 32\%$

When the data backup is complete, the LCD screen will display the following message:

Schedule Backup Pri : O Sec : R

8. GUI Monitoring Software and Firmware Update

Users can download the GUI software from the website to monitor the status of the iR2622S.

% The HDD1 equals to Pri HDD and HDD2 equals to Sec HDD.

1. System Status

This GUI will auto detects the connected iR2622S and reveals relative information accordingly.

RAID GUI v0.50.11-4c	Backup - RAIDON RAIDbox5 [D]	- 🗆 X
RAIDO	N	High Speed 6G SATA Solution RAIDGuide Manager
Device1	Device 1 Fan: 2481 Ri	PM Temperature: 30 °C
System Status	Mode: Mirroring(RAID1)	System Capacity: 465 GB
	HDD1	HDD2
System Setup	Single HOD Present	
Firmware Upgrade		
S.M.A.R.T.	Capacity 465 GB	Capacity 0 MB
	WDC WD5003AZEX-00K3CA0	
About	Firmware Version: 190109.3	Log
5x,1C y3,01	SC = 1x011C G = 2x. 1C	

2. Schedule Backup

You can schedule backups through this GUI. Click the backup cycle and click "Setting" to complete the setting.

RAID GUI v0.50.11-4c_Backup - RAI	DON RAIDbox5 [D]	- 🗆 X
RAIDON		High Speed 66 SATA Solution RAIDGuide Manager
Device1	le Backup	
System Status		
System Setup		Θ
Finnware Upgrade	(* Off	◯ 1 day
S.M.A.R.T.	C 3 days	⊂ 7 days
5.01.2.1.1.	Walt to Backup in m	inutes : (Backup off)
About	Schedule Backup	Period(Setted): off
	8	ating
ix.2D y3.01 SC = 1)	x012D G = 2x, 2D	

3. Firmware Upgrade

You may update the Firmware via this GUI, simply click on "Load" button to locate the firmware file to proceed. After update is finished, you may restart the power properly to operate with newly updated firmware.

RAID GUI v0.50.11-4c_Backup - RAID	DN RAIDbox5 [D] - 🗆 X
RAIDON	High Speed 6G SATA Solution RAIDGuide Manager
Device1	0
System Status Fi	mware Version: 190109.3
	to not disconnect the device while updating firmware to prevent from ate failed.
	the update firmware failed results in data loss, we strongly suggest kup data to other device before updating firmware.
S.M.A.R.T.	Load
About	Please contact your local distributor or the retailer you purchase from for the latest Firmware version.
22000	Officiants
.43 v3.01 SC = 1x0	143 G = 2x. 43

※ Caution : Any random firmware updates may cause device in malfunction, it is strongly suggested not to update device firmware if device is operating properly.

4. S.M.A.R.T.

Provides information on the hard drive S.M.A.R.T installed in the disk array device.

RAIDON					Speed 6G SA DGuide N		
I Device1	HDD1 HDD2 SMJ 4K Sector supported : Yes		DD1 : W	DC WD500	3AZEX-00K3CA Updates after		nds
System Status	D	Value	Worst	Threshold	RAW	Status	
	01-Raw read error rate	200	200	51	000000000000	Good	~
	03 Spinup time	181	171	21	0000000079E	Good	Î
System Setup	04-Start/Stop count	78	78	0	0000000574C	Good	
	05-Reallocated sector count	200	200	140	000000000000	Good	
	07-Seek error rate	200	200	0	0000000000000	Good	
Firmware Upgrade	09-Power-on hours count	99	99	0	00000000462	Good	
i antone epigeose	0A-Spinup retry count	100	100	0	0000000000000	Good	
	0B-Calibration retry count	100	100	0	000000000000	Good	
S.M.A.R.T.	0C-Power cycle count	100	100	0	0000000002D8	Good	
3.WI.H.K.I.	C0-Power-off retract count	200	200	0	000000002B5	Good	
	C1-Load/Unload cycle count	193	193	0	000000055B5	Good	
	C2-Temperature	112	81	0	0000000001F	Good	
About	C4-Reallocation Event count	200	200	0	000000000000	Good	
	CS-Current pending sector cou	200	200	0	000000000000000000000000000000000000000	Good	~



5. About Indicates GUI Management Software version

9. Frequently Asked Questions

Unstable system after connecting iR2622S

- Q1. After installing iR2622S, we are unable to start the computer or the computer can not locate iR2622S upon startup.
- A: 1. Please check whether the readings on the iR2622S LCD display screen appear normal.
 - 2. Please check whether the SATA Cable connection cables are properly connected to the computer system and whether SATA drives are functioning normally.
 - If everything is functioning properly but the user still can not start the computer system, then the problem might be the system incompatibility. If such incompatibility takes place, please contact our technical support department.
- Q2. When the iR2622S is in use, the computer system is functioning normally but the iR2622S access speed is abnormal.
- A: Please first check whether the iR2622S is in the progress of executing data auto-rebuild.
 - 1. Please examine if the length of the connection cables, SATA cable that connect the drives to the computer system is too long and whether the specification these cables complies with the requirements.
 - If both the lengths and specification of the cables are checked out ok, please turn off iR2622S and remove the hard drive from iR2622S. Test the hard drive directly with the computer system since it might be the bad sectors in the hard drive that are causing the longer than normal system down time.

Hard Drive Failure

- Q1. What will be the system's total storage capacity when adding a brand new hard drive?
 - 1. The total storage capacity for iR2622S is determined by the storage capacity of the primary
- A: hard drive installed during the initial usage.
 - 2. The storage capacity will not increase after initial installation even when place a brand new hard drive with larger storage capacity.

Why does the error message appear when I installed the second hard drive?

- Q2. The storage capacity of the second hard drive must be larger than the first hard drive.
- A: Otherwise, iR2622S can not rebuild the new hard drive.

About Auto Rebuilding Function

- Q1. What will happen if we turn off the computer's power while iR2622S is still executing data auto rebuilding?
- A: If the power is out of the auto rebuilding process, the controller will remember when completion percentage of the auto rebuilding process and resume the rebuilding process when the power is back on.
- Q2. Is it possible to lose any part of the data during the data auto rebuilding?
- A: The data auto rebuilding function will copy data from one sector to another sector. Technically speaking, the data will not be lost during the auto rebuilding process. However, if the original hard drive is detected with bad sectors during the rebuilding process, iR2622S will make hypothetical duplication instead of treat the bad sectors as hard drive failure. Therefore, the data stored in the bad sectors could potentially be lost during rebuilding.

關於這份手冊

感謝您使用 RAIDON 的產品。本手冊將介紹 InTANK iR2622S 產品。在您開始使用 iR2622S 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 <u>www.raidon.com.tw</u> 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:

iR2622S
iR2622S 產品本體 X1(內含抽取盒 x2)
SATA 線 x1
快速安裝導引 x 1
螺絲及鑰匙

- 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

- 1. 液晶顯示面板
- 2. 故障警示燈
- 3. 主硬碟 (HDD 1) 狀態指示燈
- 4. 次硬碟 (HHD 2) 狀態指示燈
- 5. 靜音按鍵
- 6. 硬碟抽取盒把手
- 7. 卡榫按鍵
- 8. 硬碟讀寫燈
- 1. 風扇
- 2. RS232 埠
- 3. 3.5" 硬碟 SATA 連接埠
- 4. SATA 15Pin 電源輸入埠
- 5. 4Pin 電源輸入埠



燈號一覽表 :

狀態	HDD 1	HDD 2	TRAY 1	TRAY 2	警示燈	蜂鳴器
待機	橘燈恆亮	N/A	藍燈恆亮	紅燈恆亮	N/A	N/A
資料存取	橘燈恆亮	N/A	紫燈閃爍	紅燈恆亮	N/A	N/A
HDD 1 故障	N/A	N/A	紅燈恆亮	紅燈恆亮	紅燈恆亮	鳴叫
HDD 2 故障	橘燈恆亮	N/A	藍燈恆亮	紅燈恆亮	紅燈恆亮	鳴叫
備份	橘燈恆亮	N/A	藍燈恆亮	紅燈閃爍	N/A	N/A
風扇故障	橘燈恆亮	N/A	藍燈恆亮	紅燈恆亮	紅燈恆亮	鳴叫
溫度過高 (≥50 °C)	橘燈恆亮	N/A	藍燈恆亮	紅燈恆亮	紅燈恆亮	鳴叫

2. 環境需求

工作溫度 : 0 ~ 40 °C (32 ~ 104 °F) 儲存溫度 :-10 ~ 70 °C (14 ~ 158 °F) 工作電壓 : 12V + 5V DC

3. 硬體需求與注意事項

- 1. 電腦或伺服器具備 SATA I 、 SATA II 或 SATA III 介面。
- 2. 具備 SATA I、SATA II 或 SATA III 介面的硬碟。
- 3. 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。
- 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. 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,以免導致系統損毀或資料遺失。
- 6. 硬碟格式化後的可使用儲存容量會小於硬碟標示的容量。
- 7. 強烈建議除了使用 iR2622S 系列的資料儲存功能外,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 iR2622S 系列的資料損毀或遺失,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

- 步驟 1 拆開外包裝並取出產品本體。(請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連絡。)
- 步驟 2 將系統擺放於穩固平台,並確認散熱風扇口沒有被其他物體擋住,系統四周有適當的散熱空間。(擺放環境請避免接近潮濕或其他易對產品造成損傷的環境。)
- 步驟 3 請使用配件內附的鑰匙插入卡榫按鍵向左轉 90 度·輕按卡榫按鍵後抽取盒門閂將會輕彈開 啟·即可將硬碟抽取盒取出。
- 步驟 4 安裝 3.5 吋硬碟 · 請使用 6 顆零件包內附的大顆螺絲加以固定;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。。
- 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 將附件中的連接線分別接到電腦與 iR2622S 的相關連接埠。(參照以下圖面)



內接主機殼示意圖

※ Note :

- 1. RS232 埠與 RS232 線:提供工控系統或是工業電腦透過 RS232 監控硬碟狀態。
- 2. 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。
- 3. 為了防止系統發生問題·請確保系統的電源供應是穩定且獨立的。
- 4. 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·如有需要可向銳銨銷售 / 客服人員 supporting@raidon.com.tw 索取相關資料。

5. 電腦設定

當 iR2622S 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·iR2622S 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 iR2622S 中的硬碟能夠被 Windows 的裝置管理員偵測到。
- 2. 使用 iR2622S 前,使用者可以透過磁碟管理選擇硬碟的格式。

	Volume	Layout	Type File System	Status		Capacity	Free Space	% free		動作	
15H	= 10) = (田政の祖政分) = 孝政	112) 開業	超志 NTFS 基本 基本 NTFS	代示(記名)、分百會堂 場話団 氏示(IFA 本紙(記録分前) 氏示(OLM 能(語分前)		OD MB	66.65 GB 99 MB 435 MB	60% 108% 97%		EGEN Xt£4	
	一報課0 首年 111.77 06 連夜	修復 450 M 8 N1 見近 (OEM	195	99 M8 民好 (1月 東祇臣道仲和)	低3 1104e G8 NTF5 世球 (部長, 分員を	12, 3215	1. 主要征强分	0	800M8 未完置	a	
		931.50 GB REE		1					ļ.		

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 iR2622S。如果使用上仍有問題,請參閱附件的 Q&A。

6. 訊息顯示

1. 開機與正常待機狀態

RAIDON RAIDbox5 vxxxxxx.x		Schedule Backup Pri : O Sec : R
------------------------------	--	------------------------------------

2. 風扇故障



3. 溫度過高 (≥50°C)

Schedule Backup Pri : O Sec : R T

4. HDD1 損毀而 HDD2 仍然正常存在

Schedule Backup Pri : M Sec : R

5. HDD2 損毀或未安裝而 HDD1 仍然可正常存取

Schedule Backup Pri : O Sec : M

7. 資料重建功能說明

具備硬碟熱抽拔與排程備份功能。

離線備份。當資料儲存在 iR2622S 後,使用者以次硬碟 (HDD 2) 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 iR2622S 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 iR2622S 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。

當 iR2622S 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:

Schedule Backup Pri : M Sec : R Schedule Backup Pri : O Sec : M

當移除損毀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:

Schedule Backup Pri : Insert Sec : R Schedule Backup Pri : O Sec : Insert

當進入排程備份時間,LCD 螢幕會顯示資料備份的進度:

Schedule Backup Pri → Sec 32%

當資料備份完成後,LCD 螢幕會顯示以下訊息:

Schedule Backup Pri : O Sec : R

8. GUI 功能說明與韌體更新

使用者可以從<u>網站</u>下載來安裝 GUI 軟體,藉此監控 iR2622S 的狀態。 ※ HDD1 等於 Pri 硬碟, HDD2 等於 Sec 硬碟。

1. 系統狀態

GUI 會自動偵測 iR2622S 並且顯示相關資訊

RAIDON	J	High Speed 6G SATA Solution RAIDGuide Manager
Device1	Device 1 Fan: 2481 RPM	A Temperature: 30 °C
System Status	Mode: Mirroring(RAID1)	System Capacity: 465 GB
	HDD1	HDD2
System Setup Firmsvare Upgrade	Single HDD Present	٢
S.M.A.R.T.	Capacity 465 GB WDC WD5003AZEX-00K3CA0	Capacity 0 MB
About	Firmware Version: 190109.3	Log

2. 排程備份

使用者可以透過此 GUI 進行排程備份。點選備份的週期再點選 "Setting" 即可完成設定。

ON RAIDbox5 [D]	×
	High Speed 6G SATA Solution RAIDGuide Manager
e Backup	
	Θ
Off	◯ 1 day
C 3 days	C 7 days
Wait to Backup in m	inutes : (Backup off)
Schedule Backup I	Period(Setted): off
54	enting
	ে তিৰ্দ্দ ে 3 days Wat to Backup in m

3. 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再點選 "Upgrade" 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。

RAID GI	UI v0.50.11-4c_Ba	ckup - RAIDON RAIDbox5 [D]	- (X
RA	IDO	N I	High Speed 6G SATA RAIDGuide Ma	
Devi	ice1	Device 1		
Sy	stem Status	Firmware Version: 190109.	3	
5)	ystem Setup	Please do not disconnect the device wh the update failed.	ile updating firmware to prevent fi	rom
Fim	ware Upgrade	In case the update firmware failed result you backup data to other device before		st
S.	M.A.R.T.	· · · · · · · · · · · · · · · · · · ·	Load	
	About	Please contact your local distr you purchase from for the late		
_			-	
x,43	y3,01	SC = 1x0143 G = 2x, 43		

※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。

4. S.M.A.R.T.

提供磁碟陣列設備中所安裝硬碟 S.M.A.R.T 資訊。

RA	IDON	J				DGuide		
I Devi		HDD1 HDD2 SM 4K Sector supported : Yes	ART - H Go			03AZEX-00K3CA Updates after	0	
Sy	stem Status	D	Value	N			Status	
		01-Raw read error rate	200	200	51	000000000000	Good	~
System Setup Firmware Lipgrade		03-Spinup time	181	171	21	0000000079E	Good	
	04-Start/Stop count	78	78	0	0000000574C	Good		
	05-Reallocated sector count	200	200	140	000000000000	Good		
		07-Seek error rate	200	200	0	0000000000000	Good	
	ware Lingrade	09-Power-on hours count	99	99	0	00000000462	Good	
	and oppose	0A-Spinup retry count	100	100	0	0000000000000	Good	
		0B-Calibration retry count	100	100	0	000000000000	Good	
S.M.A.R.T.	ADT	0C Power cycle count	100	100	0	000000002D8	Good	
	C0-Power-off retract count	200	200	0	000000002B5	Good		
	C1-Load/Unload cycle count	193	193	0	00000005585	Good		
		C2-Temperature	112	81	0	0000000001F	Good	
About	About	C4-Reallocation Event count	200	200	0	000000000000	Good	
		C5-Current pending sector cou	200	200	0	0000000000000	Good	
		···			•			
								_

5. 關於 GUI 軟體版本

RAIDON	High Speed 66 SATA Soluti RAIDGuide Managi
System Status	RAID Management Sofeware
System Setup	Version : v0.50.11.4c_Backup
Firmware Upgrade	
S.M.A.R.T.	
Abda	

9. 常見問題

連接 iR2622S 後系統不穩定

Q1. 安裝完 iR2622S 後,電腦無法開機或是電腦認不到 iR2622S。

- A: 1. 請確認 iR2622S 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 iR2622S 的存取效能不正常。
- A: 請確認 iR2622S 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。
 - 如果線材的長度與規格都沒問題,請關閉 iR2622S 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. 如果放入一顆新的硬碟, 系統的總容量會是?
- A: 1. iR2622S 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 iR2622S 不會進行資料重建。

關於資料自動重建功能

- Q1. 如果當 iR2622S 在資料重建時關掉電腦電源,會不會怎樣?
- A: 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,當在度開啟電源後,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,iR2622S 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。

