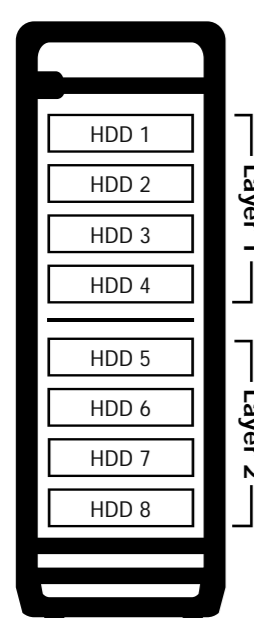


6 RAID mode setup

● Set-up

First install the HDD from up to down in the enclosure. Power on the device, press and **hold** RAID button for 3 seconds until LED flashes. Press it again, select the RAID mode you want to use and press the Confirmation Button on the rear panel till the device shuts down. Power the device on again and the RAID mode setup is completed.



SPN+ Spanning Mode (BIG)

(Layer 1 and layer 2 combined and shown as 1 HDD capacity icon)

RAID MODE		SPN+								
Layer	HDD No.	4 HDDs	5 HDDs	6 HDDs	7 HDDs	8 HDDs	shown as 1 HDD capacity icon			
Layer 1	1.	●	●	●	●	●	●	●	●	●
	2.	●	●	●	●	●	●	●	●	●
	3.	○	○	○	○	○	○	○	○	○
	4.	○	○	○	○	○	○	○	○	○
Layer 2	5.	●	●	●	●	●	●	●	●	●
	6.	●	●	●	●	●	●	●	●	●
	7.	○	○	○	○	○	○	○	○	○
	8.	○	○	○	○	○	○	○	○	○

● : Installed ○ : Empty

Figure-1

0+ RAID 0 (Striping Mode)

(layer 1 and layer 2 combined and shown as 1 HDD capacity icon)

RAID MODE		0+				
Layer	HDD No.	4 HDDs	6 HDDs	8 HDDs	shown as 1 HDD capacity icon	
Layer 1	1.	●	●	●	●	●
	2.	○	○	○	○	○
	3.	○	○	○	○	○
	4.	○	○	○	○	○
Layer 2	5.	●	●	●	●	●
	6.	○	○	○	○	○
	7.	○	○	○	○	○
	8.	○	○	○	○	○

● : Installed ○ : Empty

Figure-2

2x SPN+ 2 X Spanning (BIG)

(layer 1 and layer 2 shown individually as 1 or 2 HDD capacity icons)

RAID MODE		2x SPN+ or 2x 0+								
Layer	HDD No.	2 HDDs	3 HDDs	4 HDDs	5 HDDs	6 HDDs	7 HDDs	8 HDDs	shown as 2 HDD capacity icons	
Layer 1	1.	●	○	●	○	●	○	●	○	●
	2.	●	○	●	○	●	○	●	○	●
	3.	○	○	○	○	○	○	○	○	○
	4.	○	○	○	○	○	○	○	○	○
Layer 2	5.	○	●	○	●	○	●	○	●	○
	6.	○	●	○	●	○	●	○	●	○
	7.	○	○	○	○	○	○	○	○	○
	8.	○	○	○	○	○	○	○	○	○

● : Installed ○ : Empty

Figure-3

2x 5+ 2 X RAID 5

(layer 1 and layer 2 shown individually as 1 or 2 HDD capacity icons)

RAID MODE		2x 5+						
Layer	HDD No.	3 HDDs	4 HDDs	6 HDDs	7 HDDs	8 HDDs	shown as 1 HDD capacity icon	
Layer 1	1.	●	○	●	○	●	○	●
	2.	●	○	●	○	●	○	●
	3.	○	○	○	○	○	○	○
	4.	○	○	○	○	○	○	○
Layer 2	5.	○	●	○	●	○	●	○
	6.	○	●	○	●	○	●	○
	7.	○	○	○	○	○	○	○
	8.	○	○	○	○	○	○	○

● : Installed ○ : Empty

Figure-4

50+ RAID 50

(layer 1 and layer 2 combined and shown as 1 HDD capacity icon)

RAID MODE		50+			
Layer	HDD No.	6 HDDs	8 HDDs	shown as 1 HDD capacity icon	
Layer 1	1.	●	●	●	●
	2.	○	○	○	○
	3.	○	○	○	○
	4.	○	○	○	○
Layer 2	5.	●	●	●	●
	6.	○	○	○	○
	7.	○	○	○	○
	8.	○	○	○	○

● : Installed ○ : Empty

Figure-5

2x 10+ 2 X RAID 10

(layer 1 and layer 2 shown individually as 1 or 2 HDD capacity icons)

RAID MODE		2x 10+				
Layer	HDD No.	4 HDDs	4 HDDs	8 HDDs	shown as 2 HDD capacity icons	
Layer 1	1.	●	○	●	○	●
	2.	○	○	○	○	○
	3.	○	○	○	○	○
	4.	○	○	○	○	○
Layer 2	5.	○	●	○	●	○
	6.	○	●	○	●	○
	7.	○	○	○	○	○
	8.	○	○	○	○	○

● : Installed ○ : Empty

Figure-6

ICY BOX

IB-RD3680SU3

8-bay external RAID enclosure
3.5" SATA I/II/III HDD

Quick Installation Guide

1 Brief Notes

● Operation System

Windows Vista (32bit/64bit) / Windows 7 (32bit/64bit)
Windows 8 (for PC version only)
(under MBR partition, supports total capacity up to 2 TB only)
Windows Vista (32bit/64bit) / Windows 7 (32bit/64bit)
Windows 8 (for PC version only)
(with GPT partition enabled, supports total capacity of more than 2TB)
Mac OS X 10.8 or later

● Operation Environment

Temperature 0 ~ 50 °C Humidity 90 % RH

● References

- Smart fan controlled by the built-in thermal sensor and it comes with 2 modes (auto / manual) and 3 levels of speed:
 - Level 1:** higher than 55 °C 2,500rpm ~ 3,500rpm
 - Level 2:** 45 °C ~ 54 °C 1,800rpm ~ 2,500rpm
 - Level 3:** below 45 °C 1,200rpm ~ 1,800rpm
- Support USB transfer speeds up to Super Speed (5 Gbit/s), eSATA transfer speed (1.5~3.0 Gbit/s)
- Changing the RAID mode will cause data lost.
- Please refer to the instructions when switching the RAID mode, otherwise the execution might fail.
- Interface of USB / eSATA can not be used at the same time.
- When using RAID function, HDDs with the same brand, model and capacity is strongly recommended.
- Under Windows Vista / 7, users can enable GPT when initializing HDD with a total capacity of more than 2 TB.

2 Reminders

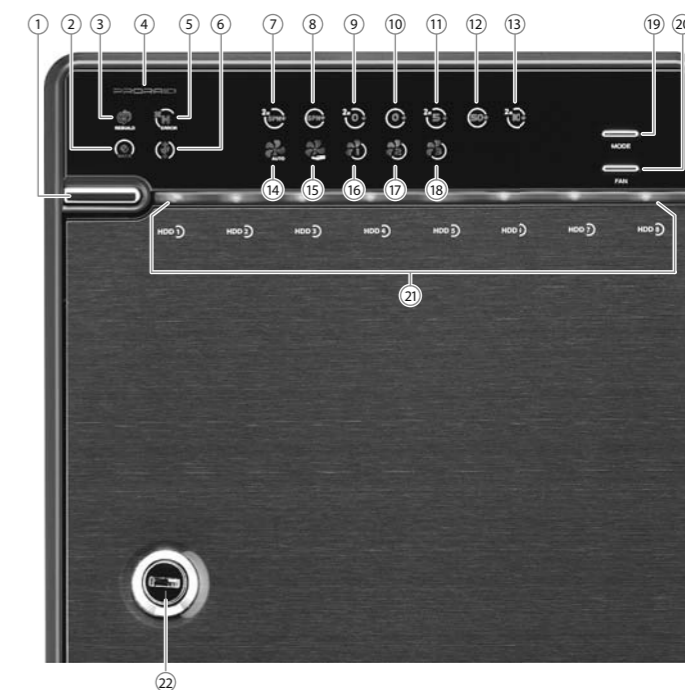
- Follow all instructions.
- Do not place this device near water.
- Clean only with dry cloth.
- Do not block any ventilation openings.
- Install in accordance with the manufacturer's instructions.
- Do not place near any heat sources such as radiators, heat registers, stoves, or the devices (including amplifiers) that produce heat.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon them or against them.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the devices has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the devices, the devices has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Carefully read and follow the Quick Install Guide and User Manual.
- Do not drop or shake the device.
- Do not move the device when it is powered on.
- Do not overload wall outlets.

Please visit our website for latest manual

<http://www.raidsonic.de>

3 Front Panel Overview

● LED Indication / Button



Descriptions

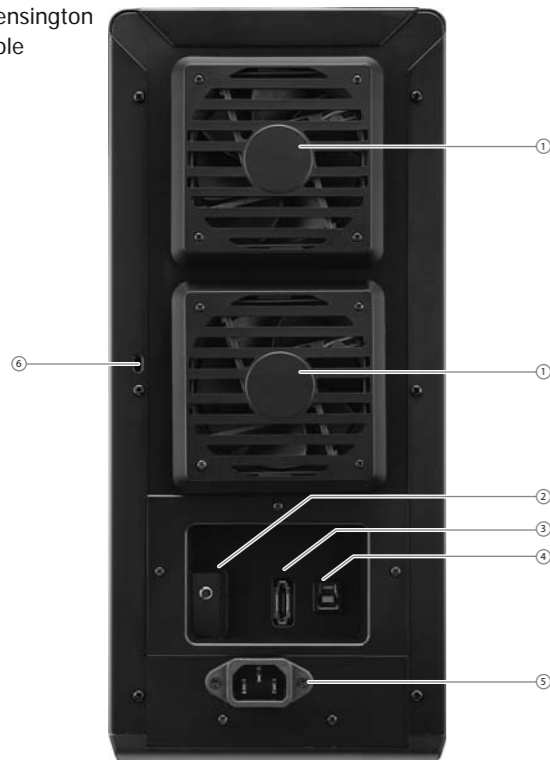
- Power button It needs to be pressed and held for 3 seconds to power off.
ⓘ This design prevents accidental power off.
- eSATA in use / access
- Rebuild
- Blue Power on
Orange Sleep mode
- HDD error When any of HDD1~HDD8 has error, HDD error is on.
- USB in use / access
- 2 x Spanning Mode (BIG)
- Spanning Mode (BIG)
- 2 x RAID 0 Striping Mode
- RAID 0 Striping Mode
- 2 x RAID 5
- RAID 50
- 2 x RAID 10
- Smart Fan automatic mode
- Smart Fan manual mode
- Fan speed level 1
- Fan speed level 2
- Fan speed level 3
- Mode RAID mode button needs to be pressed and held for 3 seconds to switch the device's RAID mode.
ⓘ This design will prevent accidental execution of this function.
- Fan button Controls auto & manual modes and fan speed from level 1 to level 3.
- HDD1 / HDD2 / HDD3 / HDD4 / HDD5 / HDD6 / HDD7 / HDD8
Blue active
Purple access
Red rebuild
- Key slot

STEP 4 Rear Panel Overview

Rear Panel

Descriptions

1. Fan
2. RAID Mode confirmation button
3. eSATA port
4. USB 3.0 port
5. 220 V AC Input port
6. Kensington hole



Inside Overview

Inside Panel

Descriptions

1. HDD1 Error
2. HDD2 Error
3. HDD3 Error
4. HDD4 Error
5. HDD5 Error
6. HDD6 Error
7. HDD7 Error
8. HDD8 Error



HDD Handle



Keys



STEP 5 Quick Installation Guide

- a. Please use the provided screws to secure the handles to the HDDs.



- b. Unlock the cover with the key supplied and press the curricular depression to open the cover.



- c. Release the inner covers anti-clockwise!



- d. Install the HDDs from up to down. Please refer STEP 6 for details.



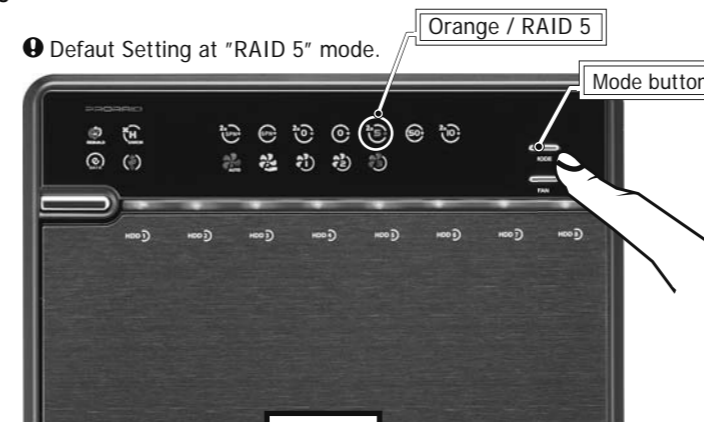
- e. Close and secure the covers.

- f. Plug in USB or eSATA cable.

RAID mode setup, users need to press and HOLD the "RAID" button for 3 seconds till the LED flashes, press again to change the mode.

- g.

Default Setting at "RAID 5" mode.



After selecting the RAID you want, press and HOLD the confirmation button in the rear panel till the device shuts down.

- h. Initialize the HDD accordingly to your operating system.

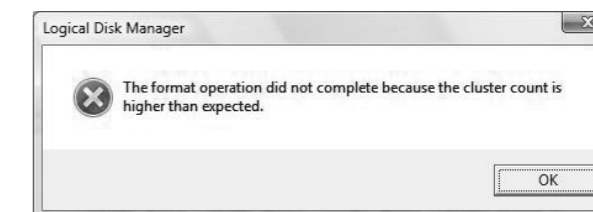
- i. Rebuild time varies depending on the HDD volume, say about 1 hour for 200GB.



When rebuild completes, rebuild LED goes off.

Trouble Shooting

Under Windows Vista (32/64-bit) / Windows XP (64-bit), if the total capacity is more than 16 TB.



If the HDD is uninitialized, you may have to initialize it by doing steps as followed:
At first click "Start", "Execute" at your PC and key in "diskmgmt. msc".
After that please press "Enter" key.



1. Start disk initialization.

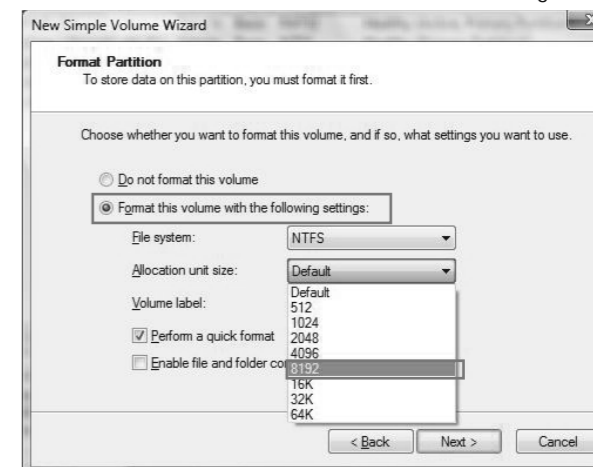


Note: Please enable GPT if the total capacity is more than 2TB and enable MBR if the total capacity is less than 2TB.

2. Create new partition and format disk.



Under Windows Vista (32/64-bit) / Windows XP (64-bit), if the total capacity is more than 16 TB, it's strongly recommend to choose "Allocation unit size" at **8192** when formatting the HDD.



Cluster size	Maximum NTFS Volume Size (bytes RAW)
512	2,199,023,255,040 (2TB)
1,024	4,398,046,510,080 (4TB)
2,048	8,796,093,020,160 (8TB)
4,096	17,592,186,040,320 (16TB)
8,192	35,184,372,080,640 (32TB)
16,384	70,368,744,161,280 (64TB)
32,768	140,737,488,322,560 (128TB)
65,536	281,474,976,645,120 (256TB)

Users could find more information about cluster allocation at : <http://support.microsoft.com/kb/302873>