iStarUSA
iStar, Good Start!

USER'S MANUAL

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1. Product Overview

Features:

* Aluminum housing, anodized surface, benefits for cooling and durability
* Small, compact, and light weight
* Backplane design for two removable SATA drive trays
* Built-in thermo speed control fan for self-contained ventilation
* Individual key lock of each HDD tray for physical security
* LED indicators on each HDD tray, support HDD activity, HDD fail, RAID Level, FAN/TEMP (environmental monitoring)
* Built-in microprocessor for hardware RAID 0, 1 (selectable)
* Built-in buzzer alarm
* Support RAID 1 mode capability of Hot-Swap, AUTO rebuilding

Descriptions:

External Dual 3.5” HDD Enclosure support Hardware RAID, Host Interface support USB 2.0 and Serial ATA.

Specifications:

Host Interface	USB2.0 and SATAII
HDD Interface	SATA I, II
Data Transfer Rate	USB 2.0 480Mbps (60MB/sec) SATA 1.5/3.0 Gbps
RAID Level	Hardware RAID 0 , 1 (selectable)
Hot-Swap	Both on Host and Device (RAID 1 only)
LED Display	 **1. LED for RAID** RAID 0-->orange RAID 1-->green **2.LED for FAN/TEMP detect** Normal-->green Fan failure-->red Over temperature-->orange **3.LED for each HDD** Access-->blue Fail-->red Rebuilding-->pink/blue flashing

Alarm	Buzzer beeping when any event occur Temperature too high (over 50°C), Fan fail and HDD Fail
Environment Management	Thermo Detect.- threshold temperature is 50℃ Fan Detect – Fan speed too low or fan stop Fan speed control according to detected temperature HDD status detect
Power Supply	External Power Adapter (AC input:100-240V~1.0A 50-60Hz / DC output:+5V/2A,+12V/2A)
Cooling	4.0 x 4.0 x 1.0 mm cooling Fan with FAN speed control (If temperature goes up, fan will turn faster for better self-ventilation.)
O.S. support	OS independent
Dimension	Enclosure only: (L):23.5cm (W):6.5cm (H):12cm Including Stand: (L):26.9cm (W):8.7cm (H):14.1cm
Material	Plastic and Aluminum alloy

Package Content:

- Enclosure x 1
- Foot Stand x 1
- HDD Tray x 2
- USB2.0 Cable x 1
- SATAII Shielding x Cable x 1
- Power Adapter w/ Power Cord x 1
- Hard Disk Drive mounting screw x 8
- Key for HDD tray x 2

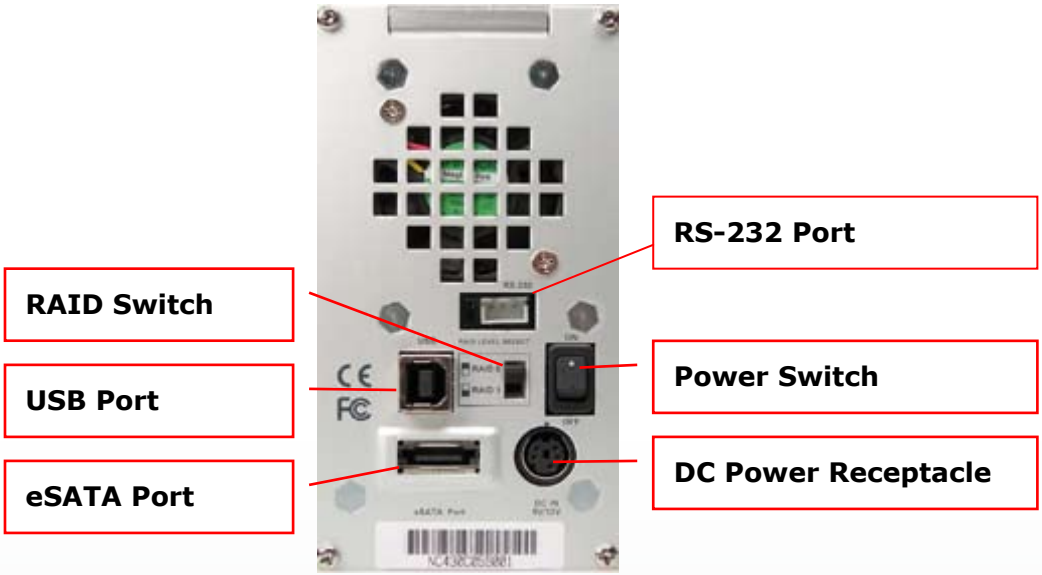
2. Quick Installation Guide

1. Installed Hard Drives

2. Stick the foot stand to where, the way you would like the enclosure to stand

3. Connection Procedure:

a. Connect USB cable from host to USB port; or, connect SATA cable from host to eSATA port.
b. Connect power cord from power adapter to DC power receptacle.
c. Select RAID level, RAID 0(striping) or RAID1(mirroring).
d. Turn on power switch, then you can start playing this unit.



3. RAID Level Re-configuration

For re-configuring the RAID microprocessor, please

1. Change RAID level
2. Turn off power
3. Turn on power

※ CAUTION: After changing the RAID level, HDDs will be reconfigured on restarting the device.

4. AUTO-Rebuilding / Hard-Copy – RAID 1 support only

Auto rebuilding can be applied for data security, which ensures the data recover with AUTO rebuilding function, Hot-Copy features HDD duplicating with or without host connection.

For hot-swapping,

1. Remove one HDD from any of equipped subsystem without shutting down the Operating System.
2. Keep accessing with the HDD left, you'd hear the buzzer beeping due to the missing HDD.
3. Re-plug the removed HDD, then buzzer will stop beeping and you'll see the LED for HDD flashing while AUTO rebuilding.

For duplicating data to another disk,

1. Ensure the subsystem is under RAID 1 mode.
2. Ensure which HDD contains complete data and plug the HDD into any bay of it first, before or after powering on.
3. Ensure the firstly installed HDD has been recognized by subsystem – the firstly installed HDD will be regarded as ***SOURCE***.
   Meanwhile, you'd hear the buzzer beeping due to the missing HDD.
4. Plug another HDD into another drive bay - the newly installed HDD will be regarded as ***DESTINATION***
   Then buzzer will stop beeping and you'll see the LED for HDD flashing while data duplicating.

5. Frequently Asked Questions

Q: Why RAID 0 works well, but RAID 1 seems not work?
A: Please reconfigure the RAID chip – just refer to RAID Level Reconfiguration.

Q: Why RAID 1 works well, but RAID 0 seems not work?
A: Please reconfigure the RAID chip – just refer to RAID Level Reconfiguration.

Q: Why does the Buzzer keep beeping?
A: Please refer to **LED Display** of Product Overview to check:

1) if the fan/tempt error,
   - ■ the environment might be too hot, or you've run the subsystem too long.
   - → please try to make your environment cooler or let your subsystem take a short rest
   - ■ higher rpm (i.e. Western Digital Raptor 10K rpm) or various brand HDDs may create more heat inside enclosure
   - → according to our internal test, Seagate HDDs are less hot

2) if HDD fail, under RAID 1 mode
   - ■ you may just swap one HDD,
   - → please plug another HDD ASAP

   ※ Caution: only RAID1 mode can support hotswap, the subsystem will start AUTO rebuilding after re-plugging the removed HDD
   - ■ Or, one HDD may fail,
   - → please replace your HDD

   ※ Caution: only RAID1 mode can support hotswap, the subsystem will start AUTO rebuilding after re-placing HDD

3) if HDD fail, under RAID 0 mode
   - ■ you may just swap one HDD, or one HDD may fail,
   - → unfortunately, we have to inform you the RAID volume j ust crashed, just kiss your data goodbye.

   ※ Caution: RAID0 mode can't support hotswap, HDD fail or swap the HDD may cause data destroyed

Q: If powering off during AUTO rebuilding will it start from beginning or continue from the last track?
A: Continue from the last track.