

(8) Sleep

The MiniPro RAID V3 does not have an auto-sleep timer. However, it will follow the sleep settings of the computer. When your computer enters sleep mode, the MiniPro will sleep and the HDDs will spin down.

(9) RAID 1 Rebuild

If one of the drives fail, the D1 or D2 LED will turn RED while connected to a computer. A new HDD can be installed and will automatically rebuild with data (if configured for RAID 1 mode).
Note: The replacement drive must be a new, unformatted drive.

1. Power down the MiniPro RAID.
2. Remove the failed drive using the included screwdriver.
3. Install the new drive and power up the MiniPro.
4. The D1/D2 LED will blink twice per second, which indicates a rebuild in progress. This can take several hours.

(10) Troubleshooting and FAQ

1) Does a "Clear" procedure delete data from existing RAID 1 or JBOD drive(s)?

No, if a Clear procedure is performed on RAID 1 or JBOD drives, the existing data on the drives will not be deleted.

2) Can I remove a drive from the RAID and install it in another enclosure for access to the files?

Yes, only if using RAID 1 (Mirroring) or JBOD.

3) Can I connect the MiniPro RAID V3 to a Thunderbolt 3 port?

Yes, the MiniPro RAID V3 is fully compatible with Thunderbolt 3 as well as USB 3.1 and 3.0. However, you must use the USB-C cable included with the MiniPro RAID V3.

4) Is the MiniPro compatible with Thunderbolt 2 using a Thunderbolt 3 adapter?

No, the MiniPro 3.1 is not compatible with Thunderbolt 2 using an adapter of any make or model.

For other questions please contact tech support or visit the FAQ section of our Web site (www.oyendigital.com/support.html).

Technical Support: tech@oyendigital.com

(11) Warranty Information

This product includes a two (2) year repair/replacement warranty provided by Oyen Digital. This warranty is non-transferable and is limited to the original purchaser. Warranty service may be requested at: oyendigital.com/support.html

(12) Safety and Compliance

Location and placing precautions

- Avoid positioning it in locations with direct sunlight or other sources of heat with high temperatures (over 120° F).
- Do not expose the product to water or humid conditions.
- Do not move the device while it is powered on.
- Ensure that the device is on a clean, firm, and stable surface.
- To allow proper ventilation, do not block or disable the fan.

Electricity and power adapter

When removing the power cable from the socket, always pull on the plug fixture and never on the cable.

Regulatory Compliance

FCC Class B Information: This device has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This unit generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation.



MiniPro RAID V3 System User Guide

For more information, visit our website at www.oyendigital.com

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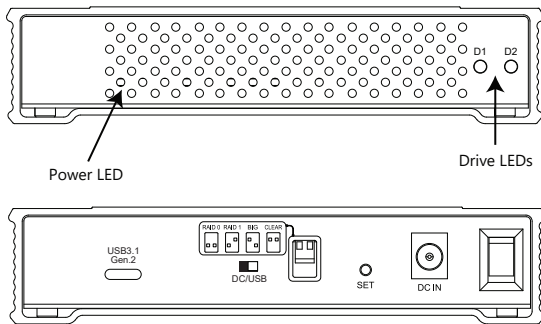
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(1) Specifications

Application	<ul style="list-style-type: none"> • 2 x 2.5" SATA HDDs or SSDs (up to 15mm height)
Interface/Ports	<ul style="list-style-type: none"> • USB 3.1 C-Type (Up to 10Gbps) Compatible with Thunderbolt 3
RAID Modes	<ul style="list-style-type: none"> • RAID 0 Striping • RAID 1 Mirroring • JBOD Clear (independent drives) • BIG (non-RAID single volume)
System Requirements	<ul style="list-style-type: none"> • Windows 7 or higher • Mac OS 10.6 or higher • Linux 3.13 or later
Operating Environment	<ul style="list-style-type: none"> • Temperature: 5°C ~ 40°C • Humidity: 10%RH ~ 80%RH
Storage Environment	<ul style="list-style-type: none"> • Temperature: -20°C ~ 70°C • Humidity: 5%RH ~ 90%RH
Power	Input: AC 100-240V, 50-60Hz; or bus power Output: DC +12V/2A
Enclosure Size	6.5 x 5.1 x 1.1 inches

(2) Detailed View



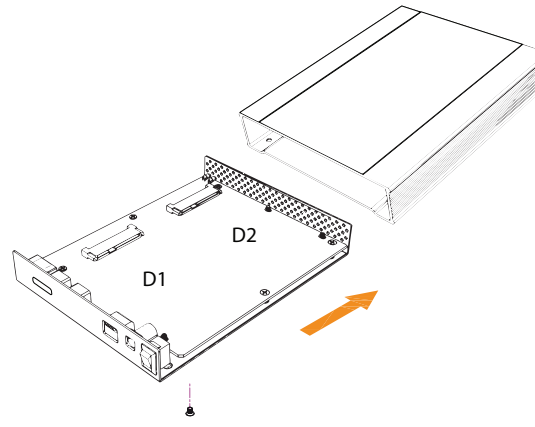
LED indicators

State	Power LED	Drive 1 (D1)	Drive 2 (D2)
Powered & ready	Solid White	Solid Blue	Solid Blue
Read/Write activity	Solid White	Fast rapid blinking	Fast rapid blinking
Drive Error or missing	Solid White	Red	Red
HDD Sleep	Solid White	Off	Off
RAID 1 Rebuilding	Solid White	Slow steady blink	Slow steady blink

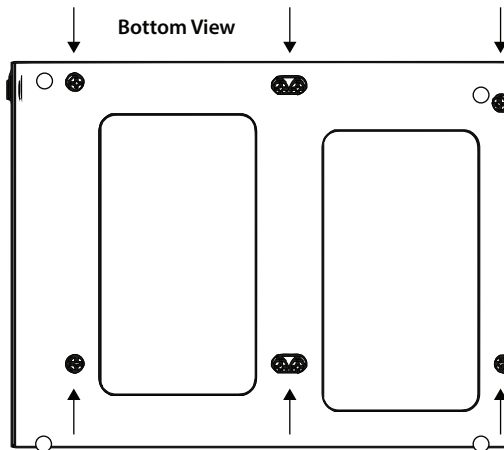
* **Note:** D1 & D2 LEDs will be OFF when the MiniPro is not connected to a computer.

(3) Installing Drives (Enclosure Only)

a) Remove the screws located at the bottom of the case and slide out the circuit board bracket from the enclosure.



- b) Install the drives in the D1 & D2 slots on the circuit board.
 c) With your hand holding the drives into the bracket, flip it over to view the screw holes.
 d) Using the 8 mounting screws, attach the drives to the bracket using the included screwdriver.



e) Slide the bracket back into the enclosure and fasten using the 4 exterior screws removed in step a.

(4) Power

The MiniPro RAID V3 can be powered from the included DC adapter or bus power. To choose the power method, slide the selector switch to the desired position. **DC** = External Adapter, **USB** = Bus Power

Note: We strongly recommend using the power adapter when connecting to a USB 3.0 port. A USB 3.0 port provides a max. of 5W, which is **not** suitable when two drives are installed in the MiniPro.

(5) System Setup

The default mode is JBOD, which is two independent drives. If your MiniPro RAID V3 has pre-installed drives, they are formatted as exFAT for Windows and Mac. If you are installing your own drives, and desire a mode other than JBOD, perform these steps:

Set RAID:

1. Set the switches on the MiniPro to the desired mode.
2. Connect the MiniPro to the host computer.
3. Using the tip of the screwdriver, press the SET button for 5 seconds.
4. Release the SET button. The RAID mode is now configured.

If changing RAID modes, you first must perform a "Clear" procedure.

Clear RAID:

1. Set the switches on the MiniPro to Clear.
2. Connect the MiniPro to the host computer.
3. Using the tip of the screwdriver, press the SET button for 5 seconds.
4. Release the SET button. Any previous RAID mode is removed and the drives are now set for JBOD mode.

Note: We recommend performing a "Clear RAID" procedure when installing previously used JBOD drives. This procedure will condition the drives for use in the MiniPro and will not delete the partition or data from the drives.

(6) Formatting the Drives

After setting a new RAID mode, you must format the volume before it is accessible.

To format using Windows:

<http://oyendigital.com/windows-reformat.html>

To format using MAC OS:

<http://oyendigital.com/mac-reformat.html>

(7) RAID Modes

RAID 0 (Striping) is a non-redundant data mapping technique. It combines data evenly across both drives simultaneously; dramatically increasing performance. RAID 0 will be viewed as one single storage unit. If one disk in the RAID System fails, all data in installed disks will be lost. The total capacity = smallest drive x the total number of drives. For example, if the smallest drive is 500GB and the other is 2TB, the total capacity will be 1TB (500 x 2).

RAID 1 (Mirroring) consists of two drives storing duplicate copies of the same data. In this mode, the data is simultaneously written to two disks. The speed of operation is slow in comparison to RAID 0.

JBOD (Clear) is simply is a collection of drives that are recognized as separate drives by the OS. JBOD provides no performance increase or redundancy. This is the **default** setting.

Big (Span) combines both hard drives into a single logical unit. Unlike Striping, it writes data to the first drive until it reaches full capacity. When the first disk reaches full capacity, data is written to the second disk. Spanning does not increase performance or safety.