

OWC ThunderBay 8

Support Manual



Introduction

1.1 System Requirements

Operating System

- Mac
 - : macOS 10.14 or later
 - Legacy OWC ThunderBay 8 devices support macOS 10.13 and earlier (April 2024 and earlier devices)

- PC

: Windows 10 or later

Hardware

- Mac or PC with Thunderbolt 3 or later

Supported Drives

- Any 3.5-inch or 2.5-inch SATA drives

1.2 Package Contents

- (1)

OWC ThunderBay 8

- (1)

Thunderbolt cable

- (1)

Power cable

- (2)

Security keys

- (

1)

3 Years of SoftRAID Premium Access (License located inside Security Faceplate)

1.3 Front View

Current OWC ThunderBay 8

*Current since April 2024

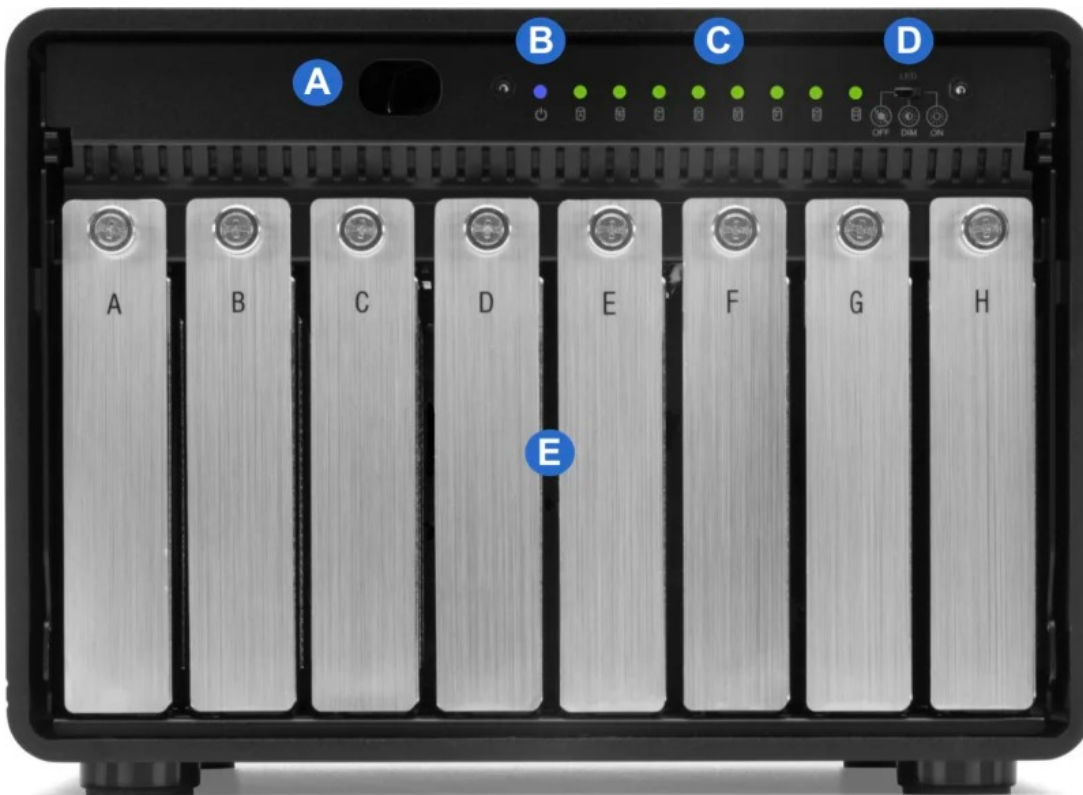
A. **Security Faceplate Lock Slot** - A Security Faceplate covers the Drive Bays and was removed to display the LED Status Switch.

B. **Power Status LED** - **Power Only** = Solid Blue / **Power & Data** = Solid Blue

C. **Drive Status LEDs** - Drive Mounted = **Solid Green** / Drive Activity = **Flashing Green** (NOTE : 0TB OWC ThunderBay 8 users may experience the Drive Status LEDs being OFF when the drives are mounted. This behavior is expected and typical occurs with older SATA HDDs.)

D. **LED Status Switch** - Toggle the switch to turn **OFF** , **DIM** , or **ON** the Device Status LEDs. The Security Faceplate needs to be removed for access. See [Section 2.2 Assembly Steps](#) for instructions.

E. **(8) Drive Bays**



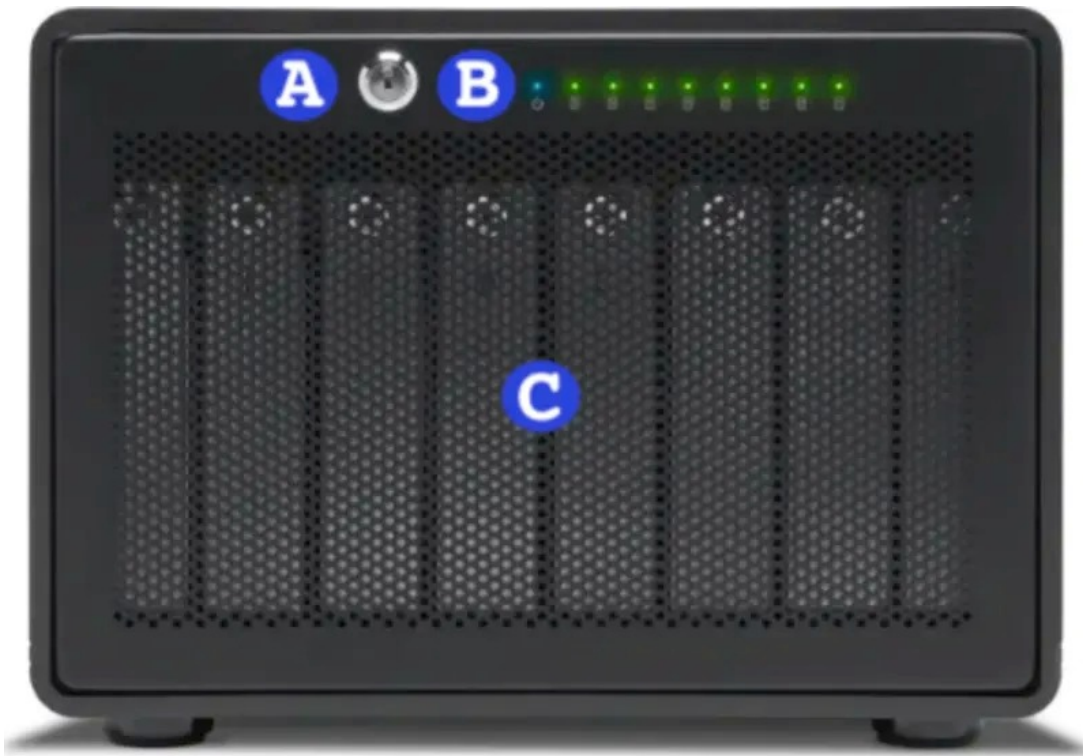
Legacy OWC ThunderBay 8

*Legacy since April 2024

A. **Security Faceplate Lock** – Use the included keys to lock or unlock the faceplate for access to the drive bays.

B. **Drive Status LEDs** - Power Only = **Orange** / Power & Data = **Blue** / Drive Activity = **Flashing Green**

C. **Drive Bays**



1.4 Rear View

Current OWC ThunderBay 8

*Current since April 2024

A. **Kensington Security slot** – Attach a Kensington Security lock

B **Power Switch** – Engage and disengage power to the device

C. **AC IN Power Port** – Connect the power cable to power the device

D. Affix **ClingOn** to help prevent accidental cable disconnections (**sold separately**)

E – Connect to a compatible host or chain additional Thunderbolt 3 devices



Legacy ThunderBay 8

*Legacy since April 2024

1. **Kensington Security slot** – Attach a Kensington Security lock
2. **Thunderbolt 3 ports** – Connect to the computer host or chain additional Thunderbolt 3 devices
3. **DisplayPort 1.2** – connect a DisplayPort display
4. **Power Switch** – Engage and disengage power to the device
5. **Power Port** – Connect the power cable to power the device



Getting Started

2.1 Device Setup

- This section describes the process of setting up the OWC ThunderBay 8 if purchased with pre-installed drives. The OWC ThunderBay 8 is available assembled with (8) SATA HDDs configured as an OWC SoftRAID RAID 5.
- Plug the power cable into the OWC ThunderBay 8 power port located on the back and into a power outlet.
- Connect the included Thunderbolt cable to the Thunderbolt 3 port located on the back of the OWC ThunderBay 8 and into a computer.
- The OWC ThunderBay 8 is configured as an OWC SoftRAID RAID 5. Downloading and installing the latest version of SoftRAID is recommended to experience the best performance.
- NOTE
 - : OWC ThunderBay 8 devices come bundled with "
3 Years of SoftRAID Premium Access
 - ". Please visit
OWC SoftRAID Product Details
 - for more information regarding SoftRAID and the bundled Premium Access.

- NOTE

: The OWC SoftRAID license is located behind the Security Faceplate of the OWC ThunderBay 8.

Mac OWC SoftRAID Setup

- Download
OWC SoftRAID for Mac
- Please review and follow the steps outlined in
OWC SoftRAID Installation for Mac

Windows OWC SoftRAID Setup

- If you are using the OWC ThunderBay 8 with the Windows operating system, the pre-installed drives need to be reconfigured before they can be used. The following options will allow the Mac formatted OWC ThunderBay 8 to work as a Windows formatted device.
 - Download
OWC SoftRAID for Windows
 - Please review and follow the steps outlined in
OWC SoftRAID Installation for Windows
 - Please consult the support article "
Mac to Windows – SoftRAID Volume Conversation
" for instructions to convert the Mac formatted OWC SoftRAID RAID 5 to a Windows formatted device through OWC SoftRAID.
 - The Mac formatted OWC SoftRAID RAID 5 OWC ThunderBay 8 can be used in Windows through the purchase and installation of OWC MacDrive11 Pro. OWC MacDrive11 Pro allows access to software RAID Mac-formatted drives in Windows without performing a conversion process. Please visit
OWC MacDrive Product Details
or
OWC MacDrive Support
for more information.

2.2 Assembly Steps

This section describes the process of installing drives into the OWC ThunderBay 8 if purchased as a bare enclosure.

1. Insert one of the keys into the lock on the top left of the security faceplate.



2. Turn the key clockwise, then pull it towards you. The faceplate will swing open.



3. Pull up on the faceplate to remove it.



4. On the drive tray you wish to remove, turn the thumbscrew counter-clockwise until you no longer feel resistance. Then hold onto the thumbscrew and pull the drive tray out



5. Set the drive tray as shown on your work surface. If you are replacing an existing hard drive, unscrew it from the drive tray at this time. Note: the highlighted screw holes are for 2.5-inch drives. The holes for 3.5-inch drives are highlighted in green (Step 7).

5



6. Place the hard drive inside the drive tray as shown. The label should face up and the SATA connectors should be on the far rear corner of the drive.

6



7. Fasten the drive into the drive tray using six of the included screws (three per side)



8. Slide the drive tray back into the rails in the ThunderBay 8 and push until it is seated fully, then push in on the thumbscrew and turn it clockwise until it stops turning. If you encounter resistance, do not force the drive tray. Remove it, check to make sure there are no obstructions and that the drive tray is lined up correctly, then slide it in again.



9. The installed drives are ready to be formatted. Move onto **section 2.3 “RAID Configuration Options”** for instructions on how to format and configure the OWC ThunderBay 8.

2.3 RAID Configuration Options

OWC SoftRAID RAID Configuration

- Downloading and installing the latest version of OWC SoftRAID is recommended to experience the best performance from the OWC ThunderBay 8.

- NOTE

: OWC ThunderBay 8 devices come bundled with "

3 Years of SoftRAID Premium Access

". Please visit

OWC SoftRAID Product Details

for more information regarding SoftRAID and the bundled Premium Access.

- SoftRAID will assist with formatting the installed drives and setting up a RAID volume.

- NOTE

: The OWC SoftRAID license is located behind the Security Faceplate of the OWC ThunderBay 8.

Mac OWC SoftRAID Setup

- Download

OWC SoftRAID for Mac

- Please review and follow the steps outlined in

OWC SoftRAID Installation for Mac

- Please review and follow the instructions outlined in

Creating a macOS OWC SoftRAID Volume

Windows OWC SoftRAID Setup

- Download

OWC SoftRAID for Windows

- Please review and follow the steps outlined in

OWC SoftRAID Installation for Windows

- Please review and follow the instructions outlined in

Creating a Windows OWC SoftRAID Volume

Mac RAID Configurator

1. Open the “Disk Utility” application on your Mac.

2. Choose “File” and select “RAID Assistant”.

3. Select a set type:

- Striped (RAID 0) set:

A

striped RAID set

can speed up access to your data. You can't create a RAID set on your startup disk; you must first start up your computer from another disk.

- Mirrored (RAID 1) set:

Protect your data against hardware failure with a

mirrored RAID set

When you create a mirrored RAID set, your data is written to multiple disks so the information is stored redundantly. You can't create a RAID set on your startup disk; you must first start up your computer from another disk.

- Concatenated (JBOD) set:

Increase storage space with a

concatenated disk set

If you need one large disk, but you have several smaller disks, you can create a concatenated disk set to use as one large disk.

4. Select the checkboxes of the disks you want to include in the set.

5. For each disk, click the pop-up menu in the Role column and choose “RAID slice” or “Spare” to designate the disk as a standard member or spare in the set, then click Next.

6. Enter a name for the RAID set in the RAID Name field.

7. Click the Format pop-up menu, then choose a volume format that you want for all the disks in the set. (See

File system formats available in Disk Utility

.)

8. Click the “Chunk size” pop-up menu, then choose a disk chunk size that you want used for all the disks.

1. When you create a striped set, chunks of data from the same file are distributed across the drives. Ideally, you want data distributed across drives evenly and at an optimum size so that it can be efficiently accessed. If you want high data throughput from your set, choose a smaller chunk size so that data is spread across the drives and one drive can be accessing data while another is seeking the next chunk. With mirrored disk sets, choose a chunk size that matches the data you’re accessing. For example, when working with video files, your Mac is accessing large chunks of data, whereas when using a database of many small records, your disks may be accessing smaller chunks of information.

9. If you are creating a mirrored RAID set, select the “Automatically rebuild” checkbox to allow the set to be automatically rebuilt when member disks are reconnected

10. Click "Create" and then click "Done".

Device Management

3.1 Drive Failure

- If the OWC ThunderBay 8 was configured as a RAID 0, the data on the array is lost and the disk is no longer usable.
- If the OWC ThunderBay 8 was configured as a RAID 5, the RAID can continue to be used, but the drive should be replaced immediately.

3.2 Replacing Drives

- If the enclosure was purchased with drives and it is still under warranty, contact OWC technical support for assistance (see section 4.4 “Contacting Support”). If the unit is outside its warranty or was purchased without drives, follow the assembly instructions to access and replace the failed drive.

- NOTE

: A failed drive must be replaced with an identical drive (model, capacity, firmware). Refer above to

section 2.2 “Assembly Steps”

for drive replacement steps.

- NOTE

: The OWC ThunderBay 8 needs an active data signal to remain powered on. If it is disconnected from the computer, or if the computer goes to sleep or turns off, the device will power off. To minimize the rebuild time, it is recommended to keep the device connected to the computer (with the computer powered on), and disable any drive sleep settings on the computer for the duration of the rebuild.

3.3 OWC Disk Performance

As of Windows 10 v. 1809 the default Disk Removal Policy is 'Quick removal' instead of 'Better performance'.

NOTE : OWC storage solutions that are experiencing slow read/write speeds should consider checking and changing the Windows disk removal policy. Changing from "Quick removal" to "Better performance" can increase disk performance. OWC offers the application OWC Disk Performance to help change the Disk Removal Policy. Changing from "Quick removal" to "Better performance" can also be changed through OWC SoftRAID or manually through the operating system.

Please review the support article [Storage Solutions: OWC Disk Performance](#) for additional details.

3.4 Manually Unmounting Volumes

To ensure no data is lost during normal use, always eject or unmount the corresponding volume(s) from the operating system before powering off and disconnecting the device. Unmounting options are provided below.

macOS

- Drag the icon for the device you wish to unmount to the trash can; OR
- Right-click the device icon on the desktop, then click "Eject"; OR
- Highlight the device on your Desktop and press Command-E.

Windows

- Windows 10 build 1809 (October 2018) or later:
 - Eject the drive by clicking the 'Show hidden items' menu in the Taskbar, then clicking 'Safely Remove Hardware and Eject Media', and last select the 'Eject' option for this volume.

- Windows 10 build 1803 and earlier:
 - Go to the System Tray (located in the lower right corner of your screen). Click on the “Eject” icon (a small green arrow over a hardware image).
 - A message will appear, detailing the devices that the “Eject” icon controls, i.e., “Safely remove...” Click on this prompt.
 - You will then see a message that says, “Safe to Remove Hardware.” It is now safe to disconnect the device from the computer.

3.5 Usage Notes

- The OWC ThunderBay 8 received several feature changes in April 2024 with the removal of the Display Port and addition of a LED Status Switch. Devices purchased before April 2024 are considered legacy while devices purchased in April 2024 and later are considered current.
- Legacy OWC ThunderBay 8 devices support macOS 10.12 and later.
- The current OWC ThunderBay 8 has an LED Status Switch. The Security Faceplate needs to be removed for access. See

Section 2.2 Assembly Steps

for instructions. Toggle the switch to turn off, dim, or turn on the Device Status LEDs.

- 0TB OWC ThunderBay 8 users may experience the Drive Status LEDs being OFF when the drives are mounted. While the intended behavior is for the Drive Status LEDs to be lit, the lights being off can be expected and typical occurs with older SATA HDDs. The Drive Status LEDs will still blink during activity. Users will not have this experience with built solutions from OWC as we certify the drives to ensure best performance
- Thunderbolt device chains can support up to six Thunderbolt devices.
- Legacy OWC ThunderBay 8 devices may see a decrease in overall performance while using the DisplayPort feature. The DisplayPort shares bandwidth with the Thunderbolt 3 ports. The same is true if you connect a display to one of the available Thunderbolt 3 ports (this can be done with either a native Thunderbolt 3 display or with a Thunderbolt 3 display adapter).
- Thunderbolt 2/Thunderbolt compatibility requires a certified

Thunderbolt 3 (USB-C) to Thunderbolt 2 (mDP) adapter

and a Thunderbolt 2 cable (available separately). This configuration provides data transfer at up to 20Gb/s but does not support notebook charging.

- To ensure no data is lost during normal use, always eject or unmount the corresponding disk(s) from your operating system before powering off the device. Several options are provided below for Mac and PC.

Support Resources

4.1 Troubleshooting

- Begin your troubleshooting by verifying that the power cable is connected to the ThunderBay 8 and to a power source. If the power cable is connected to a power strip, make sure that the power switch on the strip is turned on. Then, verify that both ends of your cables are properly plugged into the computer and the ThunderBay 8. If the OWC ThunderBay 8 is still not working properly, try connecting to another computer
- If the ThunderBay 8 is still not working properly, try connecting to another computer or using another Thunderbolt cable. Remember that the ThunderBay 8 needs an active data signal in order for the power to remain on. If it is disconnected from the computer, or if the computer goes to sleep or turns off, the ThunderBay 8 will go to sleep.
- If you are still experiencing problems, OWC support is here to help. Please have your serial number ready which can be located on the bottom of your OWC ThunderBay 8 and printed on the original packaging. Please see

section 4.4 "Contacting Support"

for contact information.

4.2 About Data Backup

To ensure that your files are protected and to prevent data loss, we strongly suggest that you keep two copies of your data: one copy on your ThunderBay 8 and a second copy on either your internal drive or another storage medium, such as an optical backup, or on another external storage unit. Any data loss or corruption while using the ThunderBay 8 is the sole responsibility of the user, and under no circumstances may OWC, its parents, partners, affiliates, officers, employees, or agents be held liable for loss of the use of data including compensation of any kind or recovery of the data.

4.3 Online Resources

- [OWC ThunderBay 8 Product Page](#)
- [OWC ThunderBay 8 Support Guide Page](#)
- [SoftRAID Quick Start Guide](#)
- [SoftRAID Knowledgebase](#)

4.4 Contacting Support

- Phone, Chat, and Email support is available by visiting (owc.com/support)

4.5 About This Manual

The images and descriptions may vary slightly between this manual and the unit shipped. Functions and features may change depending on the firmware version. The latest product details and warranty information can be found on the product web page. OWC's Limited Warranty is not transferable and

General Use Precautions

- To avoid damage, do not expose the device to temperatures outside the following ranges:
 - Environmental (Operating)
 - Temperature (°F): 41° — 95°
 - Temperature (°C): 5° — 35°
 - Environmental (Non-Operating)
 - Temperature (°F): -4° — 140°
 - Temperature (°C): -20° — 60°
- Always unplug the device from the electrical outlet if there is a risk of lightning or if it will be unused for an extended period-of-time. Otherwise, there is an increased risk of electrical shock, short-circuiting, or fire.
- Protect your device from excessive exposure to dust during use or storage. Dust can build up inside the device, increasing the risk of electrical shock, short-circuiting, or fire.

- Do not block any ventilation openings on the device. These help to keep the device cool during operation. Blocking the ventilation openings may increase the risk of electrical shock, short-circuiting, or fire.

Safety Precautions

- Use proper anti-static precautions when handling this device. Failure to do so can increase the risk of electrical shock or short-circuiting.
- Never expose your device to rain, or use it near water, or in damp wet conditions. Never place objects containing liquids on the device, as they may spill everywhere and into the openings. This will increase the risk of electrical shock, short-circuiting, fire, or personal injury.
- To avoid any risk of electrical shock, short-circuiting, fire, or dangerous emissions, never insert any metallic object into the device.

- Please cease use of the device and contact

OWC Support

if it appears to be malfunctioning.

Terms & Conditions of Sale

Warranty

The ThunderBay 8 has a [3 Year OWC Limited Warranty](#) or 5 Year OWC [Limited Warranty](#) if it was bundled with drives. ThunderBay 8 enclosures that do not ship with drives have a [1 Year OWC Limited Warranty](#). For up-to date product and warranty information, please visit [OWC ThunderBay 8 Product Details](#)

Changes

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FCC Statement

Warning ! Modifications not authorized by the manufacturer may void the user's authority to operate this device.

NOTE : This equipment has been tested and found to comply with the limits for 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 equipment 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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

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