

OWC ThunderBlade X12

Support Manual



Introduction

1.1 System Requirements

Operating System & Hardware

Works with any Thunderbolt 5 | Thunderbolt 4 | Thunderbolt 3 (Mac Only) | USB4 equipped:

- Mac
: macOS 14.x or later

- Thunderbolt 5 requires macOS 15.3.x or later
- Thunderbolt 3 requires macOS 15.x or later
- PC
 - : Windows 11 or later
- Chromebook:
 - current Chrome OS version recommended
- Linux
 - : current Ubuntu version recommended

1.2 Package Contents

- (1)
 - OWC ThunderBlade X12
- (1)
 - 0.7M (28") Thunderbolt Cable
- (1)
 - External Power Supply and 6-Pin Power Cable
- (1)
 - Ballistic hard-shell case
- (1)
 - 3 Years of SoftRAID Premium Access (License located on bottom of device)

1.3 Front View

A. Device Status LED

- (1)
 - Power Connection LED
 -
 - Power Connection
 - Solid White

- (1)

Data Connection LED -

Data Connection

= Solid Blue |

Sleep

= Off

- (12)

Drive Activity LEDs -

Data Activity

= Blinking Blue |

Sleep

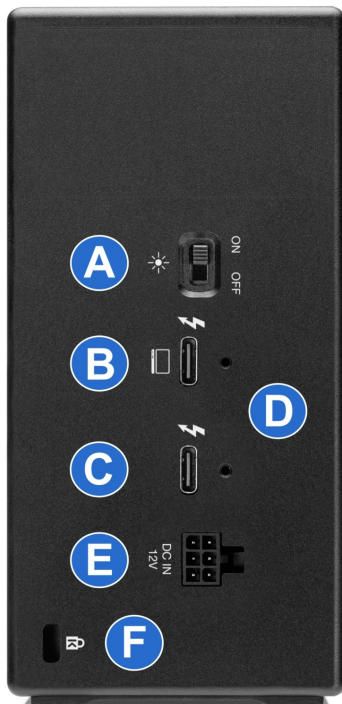
= Off



1.4 Rear View

A. **LED Dim Switch** - Toggle to disable or enable the LED function.

- B. **Thunderbolt 5 host port** - Connect to a compatible host
- C. **Thunderbolt 5 port** - Connect a Thunderbolt device
- D. – Affix **ClingOn** to help prevent accidental cable disconnections ([sold separately](#))
- E. **6-Pin DC IN 12V Power Port** - Connect the power cable to power the device
- F. **Kensington Security slot** – Connect a security tether



Getting Started

2.1 Device Setup

- The OWC ThunderBlade X12 is available assembled with (12) NVMe M.2 SSDs configured as an OWC SoftRAID RAID 0.

1.

Connect the power cable into the power adapter. Plug the 6-pin power cable into the OWC ThunderBlade X12 DC IN power port located on the back and into a power outlet. The Device Status LED will illuminate a solid white.

2.

Connect the included Thunderbolt cable into the Thunderbolt host port located on the

- The OWC ThunderBlade X12 is configured as a RAID 0 OWC SoftRAID RAID. Downloading and installing the latest version of OWC SoftRAID is recommended to experience the best performance.

- NOTE

: OWC ThunderBlade X12 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 on the bottom of the OWC ThunderBlade X12.

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 ThunderBlade X12 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 ThunderBlade X12 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 0 to a Windows formatted device through OWC SoftRAID.

- The Mac formatted OWC SoftRAID RAID 0 ThunderBlade X12 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.

Device Management

3.1 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.

3.2 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

1. Drag the icon for the device you wish to unmount to the trash can; OR
2. Right-click the device icon on the desktop, then click "Eject"; OR

3. 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.

3.3 Multiple ThunderBlade X12 Devices

- OWC SoftRAID Premium

is required to RAID multiple ThunderBlade X12 devices together.

- Mac computers with Thunderbolt ports provide them in pairs; each pair shares a single data bus.

Example

: Several MacBook Pros have 4 Thunderbolt ports, two on each side. This configuration has a total of two Thunderbolt buses. For optimal performance, please connect only one ThunderBlade to each bus.

3.4 Usage Notes

- IMPORTANT

: The OWC ThunderBlade X12 should always be kept in a vertical position. OWC does not recommend using a horizontal position.

- Some users may experience slow read performance with RAID 0 (stripe) volumes on OWC ThunderBlade X12 devices. This is only seen on Mac systems with Apple silicon M1 and M2 processors. Mac systems with Intel or Apple silicon M3 and M4 processors do not experience slow read performance. Recreating a RAID 0 volume will help restore the OWC ThunderBlade X12 to full read performance when connected to an Apple silicon M1 or M2 system. Please review the "

OWC ThunderBlade X12: Apple silicon M1 & M2 Performance

" support article for more details and instructions.

- DisplayPort 2.1 support requires an active display adapter with a USB Type-C connection.

- M

ac Only

: Boot volume must be independent from RAID volume. Please consult "

OWC ThunderBlade: macOS Boot Drive Setup

" for additional details.

- Windows users may experience a delay with the OWC ThunderBlade X12 mounting and being recognized by the Windows operating system. In some cases the OWC ThunderBlade X12 may take between 10 seconds and 3 minutes to be recognized. Windows users should wait a few minutes if the OWC ThunderBlade X12 is not immediately recognized.

- NOTE

: The read and write performance will not be effected once the OWC ThunderBlade X12 is mounted to the Windows operating system. An audio chime and 'new device connected' alert will notify the user the OWC ThunderBlade X12 is mounted.

Support Resources

4.1 Troubleshooting

- If your computer does not recognize the OWC ThunderBlade X12 when it is connected:
 - Verify the Thunderbolt cable is securely connected between the OWC ThunderBlade X12 and computer.
 - Connect the OWC ThunderBlade X12 and computer with a different Thunderbolt cable.
 - Connect the OWC ThunderBlade X12 to a different computer.
- Windows users should wait a few minutes if the OWC ThunderBlade X12 is not immediately recognized by the Windows operating system. Windows users may experience a delay with the OWC ThunderBlade X12 mounting and being recognized by the Windows operating system. In some cases the OWC ThunderBlade X12 may take between 10 seconds and 3 minutes to be recognized.

- Windows users experiencing slow read/write speeds should consider checking and changing the Windows disk removal policy. Please review the support article

Storage Solutions: OWC Disk Performance

for additional details.

- We are very sorry If issues continue to occur. Please know that OWC support is here to help. Contact information for our support can be found in

section 4.4 "Contacting Support"

Please have your serial number ready which is located on the bottom of the OWC ThunderBlade X12 and printed on the original packaging.

4.2 Online Resources

Support Articles:

- SoftRAID Quick Start Guide
- OWC SoftRAID Knowledgebase
- OWC SoftRAID Premium Access
- Mac to Windows – SoftRAID Volume Conversation Support Article
- OWC MacDrive Support Page
- OWC Disk Performance Support Article
- OWC ThunderBlade: macOS Boot Drive Setup Support Article
- OWC ThunderBlade X8 Support Guide Page

Downloads :

- OWC SoftRAID for Mac Download
- OWC SoftRAID for Windows Download
- OWC Disk Performance Download

Product Pages :

- OWC ThunderBlade X12 Product Page

- OWC MacDrive Product Page
- OWC ThunderBlade X Space Product Page
- OWC ClingOn Product Page

4.3 About Data Backup

To ensure your files are protected and to prevent data loss, we strongly suggest that you keep two copies of your data: one copy on your OWC ThunderBlade X12 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 ThunderBlade X12 (including with OWC SoftRAID) is the sole responsibility of the user, and under no circumstances may OWC, its parent, 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.

4.4 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 ThunderBlade X12 has a [3 Year OWC Limited Warranty](#) For up-to-date product and warranty information, please visit the [product web page](#)

Changes

The material in this document is for information purposes only and subject to change without notice. While reasonable efforts have been made in the preparation of this document to assure its accuracy, OWC, its parent, partners, affiliates, officers, employees, and agents assume no liability resulting from errors or omissions in this document, or from the use of the information contained herein. OWC reserves the right to make changes or revisions in the product design or the product manual without reservation and without obligation to notify any person of such revisions and changes.

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.

Copyrights And Trademarks

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written consent of OWC.

© 2025 Other World Computing, Inc. All rights reserved. OWC, the OWC logo, SoftRAID, and the SoftRAID logo are trademarks of New Concepts Development Corporation, registered in the U.S. and/or other countries. ThunderBlade is a trademark of Other World Computing, Inc. Mac and macOS are trademarks of Apple Inc. registered in the U.S. and in other countries. Thunderbolt and the Thunderbolt logo are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries. Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Other marks may be the trademark or registered trademark property of their owners.