BOLDLY GO INTO
THE NEW YEAR

CREATE

A BRILLIANT REALITY

OWC

QUALITY SOLUTIONS. EXPERT SUPPORT. SINCE 1988.
OWCSHOP.EU

FOR ALL COMPUTERKIND™

On Tuesday, October 13, 2020, the Envoy Pro FX traveled to space and back onboard a Blue Origin New Shepard rocket.

The **Envoy Pro FX** SSD included content produced by OWC contest participants, OWC employee pictures and contributions from OWC ambassadors and esteemed artists including BT, Blanco Brown, Brad Paisley, Common Kings, Desmond Child, DragonForce, Kurt Hugo Schneider, Maggie Rose, Postmodern Jukebox, Amy Peters, Puddles Pity Party, Smash Mouth, Steve Vai, Thomas Ian Nicholas, Tim McGraw, Walk Off the Earth, Weird Al Yankovic, Wyclef Jean, Yngwie Malmsteen, and ZEDD.

FOR ALL COMPUTERKIND
ENVOY PRO
#OWCInSpace
NEW SHEPARD

TABLE OF CONTENTS

AWARD-WINNING SOLUTIONS

It's always an honor to receive accolades from industry experts.
The real reward to us though is creating unique products that help
you achieve more and earn your approval.

OWC THUNDERBAY FLEX 8

An award-winning professional-grade 8-bay Thunderbolt 3 storage solution offering a multitude of configuration possibilities and almost limitless storage capacity for filmmakers, video production gurus, photographers, graphic designers and small business workgroups. Might have to take the last part of that lists the markets.. p. 10

OWC THUNDERBLADE

The award-winning ThunderBlade is the ultimate transportable production drive for media professionals. In terms of pure transfer speed, it's the fastest in the galaxy. Period. p. 15

OWC THUNDERBAY 8

The award-winning ThunderBay 8 is like a high-performance personal data center that offers multiple configuration options to suit ever-expanding storage needs. p. 12

OWC ENVOY EXPRESS

The award-winning, world's first Thunderbolt™ certified bus-powered **'Add your own drive'** Enclosure p. 8

OWC ENVOY PRO ELEKTRON

This indestructible, award-winning pocket-sized drive puts 1011MB/s of personal and work file storage and backup in the palm of your hand—pushing USB-C's bandwidth to the max so you can edit wherever, whenever on any Mac or PC, iPad Pro or tablet. p. 7

THUNDERBOLT 4 VS. THUNDERBOLT 3
WHAT'S IN IT FOR ME?

This past summer, Intel released the specifications and expectations of Thunderbolt 4. It caused quite a stir, initiated a lot of conversation, and created a bit of fear in those heavily invested in Thunderbolt 3.

In a nutshell, Thunderbolt 4 is still Thunderbolt 3. Let's break it all down and answer a few questions about what Thunderbolt 4 is really all about.

CAN A THUNDERBOLT 4 COMPUTER USE THUNDERBOLT 3 DEVICES?

Absolutely! Thunderbolt 4 is a new standard, not a new technology. While Apple users have always benefited from Thunderbolt 3's remarkable capabilities, PC/Windows computers have had various implementation levels when described as having TB3 (see chart below). Now with TB4, a PC user can be assured that they have the full Thunderbolt feature set.

And yes, you can still use all your TB3 devices, knowing that they are the latest and greatest. A TB4 device merely utilizes a new feature set that supports and interfaces with all that came before.

CAN A THUNDERBOLT 3 COMPUTER USE THUNDERBOLT 4 DEVICES?

Affirmative. Thunderbolt 4 devices are currently Hubs and Docks, that for the first time ever, let you add Thunderbolt 3/4 ports from a single port on your computer. If you are an Apple user, you will need the latest macOS that includes support for this new capability. If you are a PC owner, it's a bit fuzzier – you will need to check with the actual PC maker.

Remember, Thunderbolt 3 and Thunderbolt 4 devices do not displace each other – Thunderbolt 4 is merely adding features and capabilities to the existing Thunderbolt 3 architecture. They all work together. Thunderbolt 4 does not replace Thunderbolt 3 – it just allows for better use of all USB Type-C connected devices.

HOW IS THUNDERBOLT 3 DIFFERENT FROM THUNDERBOLT 4?

Thunderbolt 4 doesn't make Thunderbolt any better – it just makes everything Thunderbolt 3 could already do a standard requirement.

		THUNDERBOLT 4	THUNDERBOLT 3 MAC	THUNDERBOLT 3 PC
Unrivaled Simplicity	One universal computer port	☒	☒	☒
	Accessories with four Thunderbolt ports	☒	☒	
Maximum Performance	Minimum PC speed requirements	40Gb/s	40Gb/s	20Gb/s
	Minimum PC video requirements	Two 4K displays	Two 4K displays	One 4K display
	Minimum PC data requirements	PCIe 32Gb/s USB 3.2 10Gb/s	PCIe 32Gb/s USB 3.2 10Gb/s	PCIe 16Gb/s USB 3.2 10Gb/s
	Required PC charging on at least one computer port	☒	☒	
	Standard, Required PC wake from sleep dock functionality	☒	☒	
	Minimum PC port power for accessories	15W	15W	15W
	Thunderbolt Networking	☒	☒	☒
Security	Required Intel VT-d based DMA protection	☒	☒	

A THUNDERBOLT 4 CABLE IS THE LINK YOU CAN COUNT ON, NO MATTER WHAT THE LINK IS.

Thunderbolt 4 cables herald a new, fully certified, universal compatibility. What does that mean? While others (including some Thunderbolt 3) aren't fully interoperable with all USB-C port uses, Thunderbolt 4 cables will work regardless of the device or computer. Many tech support issues occur when a wrong Type-C cable is used – especially when someone thinks that the one Apple included with their laptop or iPad Pro is a fully enabled Thunderbolt cable. News flash: it isn't.

So, as long as your Thunderbolt 4 cable is from a reputable, certified manufacturer (like OWC) and is imprinted with a lightning bolt and the number 4, you don't have to worry about what kind of USB-C/Thunderbolt/Power/Display device you're using. It will work 100% of the time at the maximum specification supported by the device and computer. And yes, 40Gb/s Thunderbolt 3 cables also work fine with Thunderbolt 4 devices and computers too.

THUNDERBOLT 3 AND 4 ARE BOTH 'THE LATEST'

In no way does Thunderbolt 4 replace or diminish the great Thunderbolt 3. With OWC, you have and will continue to get the maximum potential out of all Thunderbolt has to offer. Thunderbolt 4 lets us do even more with Thunderbolt 3—with more ports—and that's fantastic!

For more, please read our blog post at www.macsales.com/thunderbolt

THE BOTTOM LINE

As a company devoted to helping keep your computer running longer, faster, and more efficiently, you can be assured that all the great new and used Macs OWC offers will be viable for many years to come. Long live your computer!

POCKET-SIZED POWERHOUSES

PORTABLE SSDS FOR ALL COMPUTERKIND™

Tiny. Tough. Thrillingly fast. The Envoy Pro family of portable SSDs are the ideal companion for all data storage needs. From personal to pro and from desktop to on-the-go.

NEW! OWC ENVOY PRO FX

Up to 2800MB/s | Up to 2.0TB | Mac, Windows, Linux, Chrome OS, & iPadOS

The fastest, most compatible bus-powered portable drive For All Computerkind. The first of its kind to go into space and return to work with yesterday's, today's and tomorrow's Thunderbolt and USB computers/devices. Perfect for audio, video, photography, graphics, gaming, and general data storage/backup uses.

– Flexible compatibility: Macs and PCs, plus iPad Pro, Chromebook, and Surface devices

– Xtremely fast: supports Thunderbolt and USB interface up to 2800MB/s

– OWC Aura SSD powered: up to 6x faster performance vs. other portable SSDs

– Built like a tank: dust/drop/waterproof certified

– Protected: 3 Year OWC Limited Warranty

480GB–2.0TB

NO MORE INTERFACE WORRIES!

This stealthy and silent drive plugs into computers, tablets, and smartphones so you can transfer files as fast as your device can go!

USB 3.2
10Gb/s

NEW! OWC ENVOY PRO SX

Up to 2800MB/s | Up to 2.0TB | Mac & Windows

This super-fast, rugged portable Thunderbolt SSD for daily to production-level audio, design, and photography storage needs.

- Super-fast: up to 6x faster performance vs other portable SSDs
- Super versatile: perfect for A/V, photo, graphics, gaming, and general storage/backup
- Xtremely portable: bus-powered and smaller that most compact size smartphones
- Xtremely rugged: dust/drop/waterproof certified
- Protected: up to 3 Year OWC Limited Warranty

480GB–2.0TB COMING MARCH 2021

ONE SUPER LITTLE BEAST
This SSD handles daily storage to production-level workflows like a true superhero. And it's extremely rugged to shrug off the most perilous work and play settings.

NEW! OWC ENVOY PRO ELEKTRON

Up to 1011MB/s | Up to 2.0TB | Mac, Windows, Linux, Chrome OS, & iPadOS

The fastest and toughest mini-sized SSD in the universe. Put massive-sized personal and work files in the palm of your hand while pushing USB-C's bandwidth to the max. Edit and save wherever, whenever on virtually any Mac, PC, or mobile device.

- Unbeatable: up to 2x faster performance than other mini-sized SSDs
- Universally compatible: works with past/present/future Thunderbolt and USB Macs plus iPad Pros, Chromebooks, and Android tablets
- Impenetrable: crushproof, dustproof and waterproof
- Protected: up to 3 Year OWC Limited Warranty

480GB–2.0TB

SMALLER. FASTER. LIGHTER.
Half the size of a smartphone and bus-powered, yet able to transfer gigabytes of data in seconds with anything, anywhere.
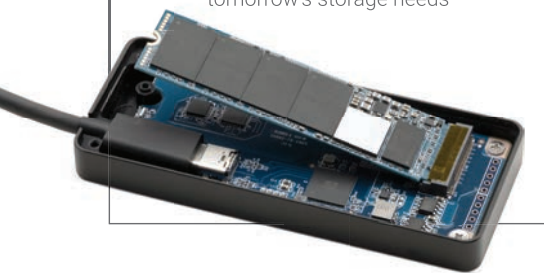

CES INNOVATION AWARDS 2021 HONOREE

FUTURE TECH AWARDS 2020 READER'S CHOICE NOMINEE

BACKUP, PLAY, & EDIT. FASTER.

ADD CHOICE OF DRIVE IN 3 STEPS
Quick DIY solution for today's and tomorrow's storage needs

OWC ENVOY EXPRESS
Up to 1553MB/s | 0GB Add your own drive | Mac & Windows

World's first Thunderbolt-certified, bus-powered 'add your own drive' enclosure that puts super-fast video, audio, and gaming backup and storage in your pocket for easy transport.

– Lightning speed: supports up to 1553MB/s real-world performance

– Certified: first bus-powered enclosure that meets stringent Thunderbolt power requirements

– Easy DIY: uses any NVMe M.2 2280 SSD available today and in the future

– Gets onboard: includes removable slide mount for out-of-the-way use convenience

– Compact: shorter than a ballpoint pen and weighs a mere 3.3 ounces with drive

– Protected: 2 Year OWC Limited Warranty

OWC ENVOY PRO EX WITH USB-C
Up to 980MB/s | Up to 4.0TB | Mac, Windows, Chrome OS, & iPadOS

Take your photos, videos, and music with you wherever you roam. With lightning-fast speeds up to 980MB/s, you can edit 4K videos and photos or drag and drop files in mere seconds. You can even record directly from USB-C cameras.

– Supercharged: powered by an OWC NVMe M.2 SSD, designed to go everywhere

– Robust: edit large format files directly from the drive

– Mobile: bus-powered and fits in your pocket

– Impenetrable: crushproof, dustproof and waterproof

– Protected: up to 3 Year OWC Limited Warranty

240GB–4.0TB

OWC ENVOY PRO EX WITH THUNDERBOLT 3
Up to 2800MB/s | Up to 4.0TB | Mac & Windows

Ultra-fast, portable SSD with military-level protection from drops and bruises. Made to handle in-the-field audio, design, and photography storage needs.

– Production ready: for demanding large-format video VFX, VR and AR

– Powerful: OWC NVMe M.2 SSD + Thunderbolt 3 performance

– Impenetrable: crushproof, dustproof and waterproof

– Protected: 3 Year OWC Limited Warranty

240GB–4.0TB

"The Envoy Pro EX drive makes my life so much easier in my studio, or on the road."

— Tony Succar, 2-time Latin Grammy Awards-winning Artist / Producer

WORLD'S FIRST PRODUCTS

Explore new frontiers in productivity and creativity. Boldly reach higher and do more. These forward-thinking products transport you into a new future with limitless potential.

OWC THUNDERBAY FLEX 8
World's first Thunderbolt 3 storage, docking, and PCIe expansion solution. p. 10

OWC THUNDERBOLT HUB
For the first time ever add three Thunderbolt/Universal Type-C ports and one USB Port for connecting more storage, devices, and displays. p. 29

OWC CASE BYTE
World's first attached high-speed SSD for 2016 and later 13-inch MacBook Pro. p. 47

OWC ENVOY EXPRESS
World's first Thunderbolt-certified, bus-powered 'add your own drive' enclosure that puts super-fast video, audio, and gaming backup and storage in your pocket for easy transport. p. 8

MERCURY PRO U.2 DUAL
World's first dual U.2 bay storage solution that combines blazing-fast NVMe SSD dual performance and massive capacity in a compact design. p. 20

OWC U2 SHUTTLE
World's first U.2 carrier shuttle for 3.5-inch drive bays that combines four NVMe M.2 SSDs into a swappable, high capacity, flexible and RAID-ready storage solution. p. 36

HELIOS 3S WITH NVME INTERCHANGE SYSTEM
World's first U.2 interchange system revolutionizes storage with easy access, swaps and transport of U.2 SSDs up to 16TB. p. 37

FLEX THROUGH EVERY WORKFLOW

OWC THUNDERBAY FAMILY

The amount of data you need to access and store efficiently increases daily. With multiple configurations to choose from, the ThunderBay line provides space, speed, and flexibility for your storage needs — today and in the future.

OWC THUNDERBAY FLEX 8
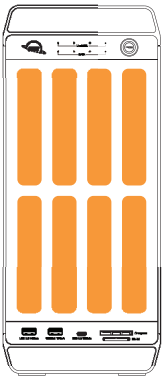Up to 2750MB/s | Up to 128TB | Mac

The world's first Thunderbolt storage, docking, and PCIe expansion solution. It's highly configurable to meet your unique workflow needs.

– Versatile: 8 FLEXible drive bays all supporting 2.5-inch/3.5-inch SATA 6Gb/s, and the top four bays also support NVMe U.2 for ultimate speed

– Connected: works with all devices with (1) USB-C and (2) USB-A ports

– Visual: DisplayPort 1.4 for connecting up to an 8K display

– Expandable: front-side SD 4.0 and CFexpress card readers

– Cutting-edge: PCIe (x16) slot for A/V, storage, RAID, networking, or I/O card

– Protected: up to 5 Year OWC Limited Warranty

DIY Enclosure for Max Configurability

CES INNOVATION AWARDS 2021 HONOREE

BEST OF SHOW AWARDS SPRING SEASON 2020 Special Edition
VIDEOEDGE WINNER

MUSCLE-FLEXING READY SOLUTIONS

8 HDD MAXIMUM CAPACITY CONFIGURATION

Ideal for taming the voracious drive space appetite of RAW, 4K, large format, and VR workflows. Arrives pre-set with RAID 5 speed and protection. Select a recommended PCIe card or add your own to experience more convenient docking and expanded capabilities!
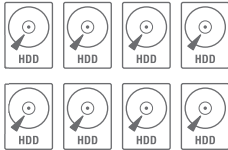
8 ENTERPRISE-CLASS HARD DRIVES

Edit and store entire projects on this ultra-capacity HDD RAID array that arrives pre-certified in RAID 5 for the best balance of data integrity and performance. Or, setup the RAID of your choice with flexible user configurable RAID 0, 1, 4, 5, 1+0 (10) options.
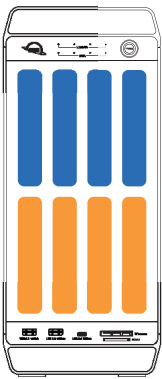
4 SSD + 4 HDD MAXIMUM FLEXIBILITY CONFIGURATION

Get the best of both worlds, a blazing-fast, high-capacity SSD RAID 0 project drive for large format, multi-stream workflows along with the added long-term storage capacity of HDD RAID 5. Select a recommended PCIe card or add your own to experience more convenient docking and expanded capabilities!

4 U.2 SOLID STATE DRIVES

Nothing speeds up your workflow like large SSD storage. This blazing-fast SSD RAID is perfect for large-format and multi-stream workflows.

4 ENTERPRISE-CLASS HARD DRIVES

Edit and store entire projects on this ultra-capacity HDD RAID array that arrives pre-certified in RAID 5 for the best balance of data integrity and performance. Or, setup the RAID of your choice with flexible user configurable RAID 0, 1, 4, 5, 1+0 (10) options.
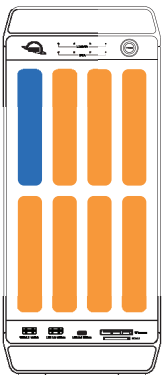
1 NVME SSD + 7 HDD MAXIMUM WORKFLOW CONFIGURATION

Ingest and edit live on a hyper-fast U.2 SSD or use the drive as a swappable transport for fast lab processing while being able to edit and store projects on a HDD RAID 5 array. Select a recommended PCIe card or add your own to experience more convenient docking and expanded capabilities!

1 U.2 SOLID STATE DRIVE

This is the fastest FLEX Bay with up to 2750MB/s 4-lane PCIe performance. This is where you can harness the power of U.2 SSDs to experience their workflow enhancing maximum potential.
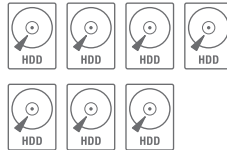
7 ENTERPRISE-CLASS HDD

Edit and store entire projects on this ultra-capacity HDD RAID array that arrives pre-certified in RAID 5 for the best balance of data integrity and performance. Or, setup the RAID of your choice with flexible user configurable RAID 0, 1, 4, 5, 1+0 (10) options.
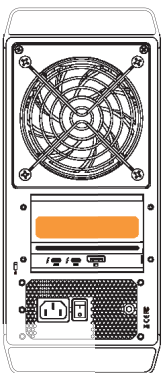
PCIE CARD OPTIONS TO ENHANCE YOUR FLEX 8 WORKFLOW

Easily expand your capabilities. Add additional connectivity or storage with ease, or leave the PCIe slot empty for future expansion options.

OWC ACCELSIOR 4M2

Our fastest SSD ever offers up to 2750MB/s of pure performance in Flex 8. It's great for adding additional ultra-high-performance storage to your OWC ThunderBay Flex 8 workflow.

AKITIO 5-SPEED 10G/NBASE-T

Integrate your Flex 8 perfectly into IP-based workflows. Runs up to 10G speed at 100m with Cat-6A cable, or up to 5G with Cat-6 cable.

OWC THUNDERBAY 8
Up to 2586MB/s | Up to 144TB | Mac & Windows

Eight hot swappable drive bays makes you feel like you're running your own personal data center! Two Thunderbolt ports so you can breeze through business backups, as well as today's highest RAW photo and multi-stream 4K video formats.

- Mix or match: 2.5-inch (no adapter needed) and 3.5-inch HDDs and SSDs
- Connected: second Thunderbolt 3 port for adding up to five additional Thunderbolt devices
- SoftRAID: manages, monitors, and protects your data
- Powerful: daisy-chain six units together for up to 768TB capacity
- Protected: up to 5 Year OWC Limited Warranty

16TB–144TB

ProHUB | AWARDS OF
EXCELLENCE
2020 WINNER

EDIT, EXPERIMENT, CREATE, & DESIGN

OWC THUNDERBAY 4 WITH THUNDERBOLT 3
Up to 1527MB/s | Up to 72TB | Mac & Windows

Our original RAID powerhouse now with Thunderbolt 3 so you can get the most out of your storage, take the brakes off your workflow, and do more.

- Versatile: works with 3.5-inch or 2.5-inch drives — no adapter needed
- Connected: dual Thunderbolt 3 ports + dedicated DisplayPort 1.2 port
- SoftRAID: manages, monitors, and protects your data
- Options: Thunderbolt 3 and Thunderbolt 2 models available
- Protected: up to 5 Year OWC Limited Warranty

4.0TB–72TB

★★★★★

Great drives
Equipment is super solid and support staff is fantastic. No need to look anywhere else.

OWC THUNDERBAY 4 MINI WITH THUNDERBOLT 3
Up to 1556MB/s | Up to 16TB | Mac & Windows

Four 2.5-inch drive bays transform SSDs and HDDs into a pro-grade Thunderbolt solution that fits on a desk, in a rack, or on a DIT cart.

- Exhilarating: (4) 2.5-inch drive bays for maximum SSD/HDD potential
- Options: Thunderbolt 3 and Thunderbolt 2 models available
- SoftRAID: manages, monitors, and protects your data
- Compact: pencil-length and 3.1 lbs with SSDs
- Protected: up to 3 Year OWC Limited Warranty

4.0TB–16TB

ARCHIVING MADE DRAG & DROP EASY

NEW! OWC MERCURY PRO LTO

Up to 360MB/s native | Up to 12TB native | Mac & Windows

This easily integrated tape backup/archiving solution is a critical requirement to protect and preserve huge volumes of data over time. A built-in handle makes it easy to take it on-set, or on the move — bringing shared data protection to your studio, department, or office computers. This ready to use tape backup/archiving solution is an essential requirement for those who need to protect and preserve important projects or critical data over a long period of time.

- Flexible: built-in IBM-LTO-8 drive reads and writes LTO-8 and LTO-7 tapes
- Store longer: up to 30-year tape longevity and store more: up to 12TB native and up to 30TB compressed storage capacity per tape cartridge
- Consolidate: add an optional data staging SSD up to 16TB
- Simple interface: mount, format, and backup to an LTO tape and hard drive simultaneously via included myLTO® app
- Protected: 5 Year OWC Limited Warranty

MERCURY PRO LTO
FUJIFILM

SOLID STATE DRIVE
MERCURY
EXTREME PRO
6G

STAGING DRIVE READY

The Mercury Pro LTO has an additional drive bay enabling you to add up to a 16TB SSD as a staging drive. You can then transfer everything to the LTO tape for efficient, consolidated large single copies.

START ARCHIVING IMMEDIATELY

Includes LTO-8 12TB data tape, cleaning tape, Thunderbolt cable, and Imagine Products myLTO® software.

SOLUTIONS FOR EVERY TYPE OF STORAGE. POWERFUL RAID WITH THUNDERBAY AND SOFTRAID.

OWC hardware and software teams work together daily to create unmatched and powerful RAID solutions that deliver the lightning-fast speed and rock-solid protection our customers demand.

DISCOVER THE BEST WAY TO RAID ON P. 16–17 OR VISIT WWW.MACSALES.COM/SOFTRAID

ENTERPRISE-GRADE DESKTOP NAS FOR SMALL WORKGROUPS

JUPITER

OWC JUPITER MINI 5-BAY

Up to 80TB | Intel Xeon D Processor | 10Gb Ethernet

The secure network data storage platform that can be modified to your unique needs while fitting on a desktop for easy access. No more sourcing components, choosing between operating systems, or paying and trusting third-party cloud vendors with your precious data.

- FreeNAS preloaded: world's #1 open source storage OS with user friendly GUI
- Powerfully flexible: handles basic document storage to 4K video projects
- Customizable: free plug-ins for entertainment, collaboration, security, backup, and more
- Protected: up to 3 Year OWC Limited Warranty

20TB–70TB

PUSH YOUR CREATIVITY FURTHER
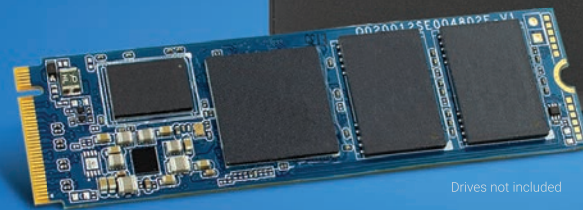
Drives not included

PUT THE POWER OF FOUR OWC AURA P12 PRO NVMe M.2 SSDS AT YOUR FINGERTIPS!

240GB–4.0TB

OWC EXPRESS 4M2
Up to 2800MB/s | Mac & Windows

From on-location shoots to all-night gaming and on-stage performances, this customizable external drive puts four powerful NVMe SSDs at your fingertips. RAID them how you wish, and connect them all via Thunderbolt, the fastest and most flexible interface.

- Flexible: add up to (4) NVMe M.2 SSDs of your choice
- See more: dedicated DisplayPort for adding an additional display
- SoftRAID: manages, monitors, and protects your data
- Protected: 1 Year OWC Limited Warranty

★★★★★

Great System!
I have two volumes running in this enclosure. One is a RAID 0 with two drives. ... This runs flawlessly and quiet!

FASTER THAN YOU CAN IMAGINE

"With transfer speeds that redefine your workflow, DIT is not the last off the set. Thank you ThunderBlade."

— Scott McLeslie, CTO of Village Studios

OWC THUNDERBLADE
Up to 2800MB/s | Up to 16TB | Mac & Windows

The award-winning ThunderBlade has become a production essential around the world. Its massive speed blazes through uncompressed, high-bandwidth content streams and helps keep productions rolling ahead of deadline. Built durable for easy transport and on-location use!

– Cool and silent: fanless for silent use on set and in the studio

– Tough: rugged portability with ballistic hard-shell case

– SoftRAID: manages, monitors, and protects your data

– Protected: up to 3 Year OWC Limited Warranty

1.0TB–16.0TB

★★★★★

A priceless tool for media professionals
This instantly became one of the most important tools in my arsenal. BRAVO OWC, this beauty is world-class!

SECURE SPACE-SAVING SOLUTION

NEW! OWC THUNDERBLADE X SPACER

This unique spacer lets you quickly and securely connect two ThunderBlade drives vertically to save precious desk space while allowing the drives to run cool and fast. No tools required!

– Toolless: quick and easy install

– Safe: ensures proper air flow for cool operation

– Secure: silicone rubber feet prevent sliding

– Rugged: tough aluminum for demanding environments

WORK BETTER.

THINGS WORK BETTER WHEN THEY WORK TOGETHER.

Our software and hardware teams work together to produce powerful, efficient, and beautifully made technologies. From our reliability-focused hardware that protects your precious data to our software that ensures you get the most out of that OWC hardware to our backend tools that optimize and stress test each solution, we're diligent about ensuring your new OWC solution is ready to perform seamlessly.

Our dedicated team works on every facet of our solutions, from top to bottom, inside and out. Our products are fine-tuned to work exactly as designed and address your needs with pin-point accuracy. It's the OWC Advantage.

SOFTRAID FOR WINDOWS

SOFTRAID FOR MAC

SoftRAID
an OWC brand
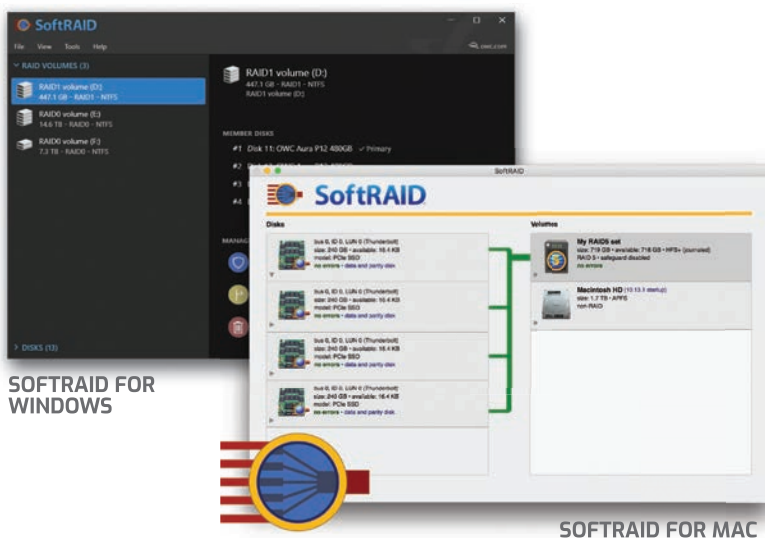
Easily Manage, Monitor and Protect Your Data

For over 25 years, SoftRAID has been the most fully featured, robust and powerful software RAID solution available for macOS. Now that "ability" is available for Windows users too!

SoftRAID saves you time and money by making it easier to maintain mission-critical workflows. With SoftRAID, you're no longer locked into an expensive hardware RAID technology that's not upgradeable or expandable.
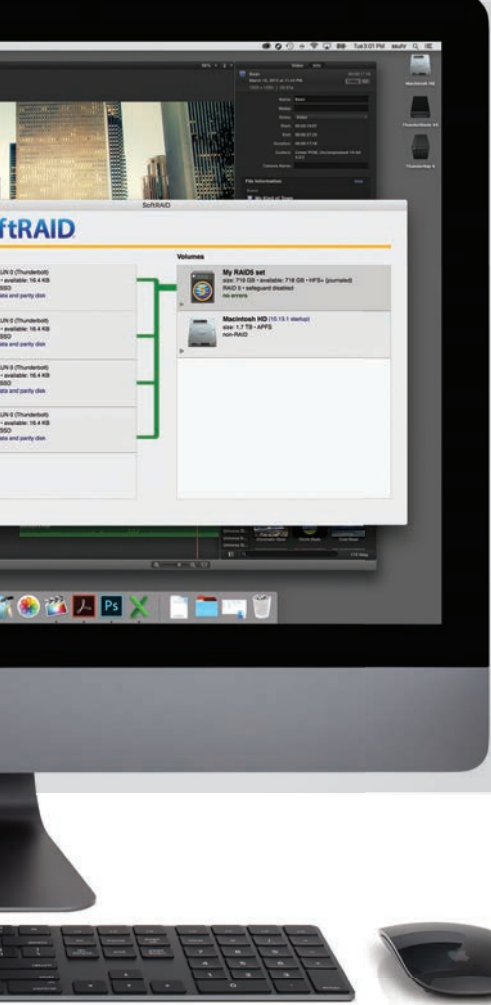
WORK TOGETHER.

NEW! SOFTRAID LITE RAID 0, 1 | MAC & WINDOWS
NOW AVAILABLE! SoftRAID comes to Windows

For the first time ever, you can use SoftRAID on your Mac and your PC. SoftRAID Lite brings incredible speed, security, and shareable cross-platform RAID access to macOS and Windows.

SoftRAID Lite gives you the ability to create super-fast RAID 0 sets or ultra-secure RAID 1 sets. It also protects your data with extensive drive health monitoring.

With the new Windows version of SoftRAID Lite, sharing data has never been easier. Built with MacDrive technology, SoftRAID Lite allows you to create and use HFS+ RAID sets in both macOS and Windows computers, so you'll never have to worry about disk formats again.

NEW! SOFTRAID RAID 0, 1, 4, 5, 6, 6+, 1+0 (10) | MAC ONLY

SoftRAID 6 for Mac gives you all the features found in SoftRAID Lite, plus four additional, advanced RAID levels for more protection and security. SoftRAID 6 is packed with new features including RAID 6 and 6+, APFS and encryption, Dark Mode, corruption protection and more.

SoftRAID takes data security to the next level. It keeps you in the loop with custom email notifications that let you know immediately when there is a disk error so you can take immediate steps to protect your data.

- Flexible: create RAID 0 and 1 volumes with SoftRAID Lite (Windows and Mac)
- Advanced: create RAID 0, 1, 4, 5, 6, 6+, 1+0 (10) volumes and get email notifications for drive and RAID volume health with SoftRAID (Mac only)
- Validate: volume validation ensures sectors can be read, parity is correct, and any potential volume failure is minimized
- Certified: drives are validated before use to ensure they are safe for data storage
- Vigilant: predictive warnings help protect against unexpected drive failure
- Cross-platform ready: built-in MacDrive technology lets you read/write SoftRAID RAID 0 and RAID 1 arrays, and use them interchangeably with Windows and macOS computers
- Outperforms: up to 86% faster than AppleRAID
- Thorough: full TRIM support improves internal and external SSD performance in all RAID levels
- Risk-free: 30-day free trial of fully functional application

SoftRAID Lite
RAID 0, 1 | Mac & Windows

SoftRAID
RAID 0, 1, 4, 5, 6, 6+, 1+0 (10) | Mac only

With breathtaking performance, multi-enclosure capability, advanced drive monitoring, and downloadable updates, OWC SoftRAID is data center level software for your desktop.

A BEGINNER'S GUIDE TO
UNDERSTANDING RAID

When it comes to your photos, videos, and other valuable files, you don't want to skimp on data security and management. Whether it's past archives, existing projects, or future jobs, RAID storage solutions are vital to optimize and protect your digital work.

WHAT EXACTLY IS RAID?

RAID commonly stands for "Redundant Array of Independent Disks." Simply put, a RAID puts two or more separate drives together to act like one. The benefits of this are to keep your data safe, to access your data faster, or some combination of the two. A RAID distributes data across volumes (or drives) in several different ways, depending on the "level" of RAID you choose.

WHAT ARE THE DIFFERENT RAID LEVELS?

There are multiple levels of RAID and each has its own pros and cons regarding the balance of speed and security. RAID levels are denoted by different numerical values (RAID 0, RAID 1, etc.), but these are only for identification and do not signify number of disks, performance or any other metric.

RAID 0	RAID 1	RAID 4	RAID 5	RAID 6, 6+	RAID 1+0 (10)
Stripes	Mirrors	Stripes with Dedicated Parity	Stripes with Distributed Parity	Stripes with distributed parity on multiple disks	Stripes and Mirrors
• Fastest RAID • No protection from disk failure • Best for scratch storage when editing digital video/photos/media • Good for large and small files • Requires 2 or more disks	• Extremely Safe RAID • Highest level of disk failure protection • Best for critically important data where access speed is not an issue • Good for large and small files • Requires 2 or more disks	• Fast and safe • Best for general use on SSDs • Super-fast read/write of large files used for video, animation, photography, and graphics • Good for large files • Requires 3 or more disks	• Fast and safe • Best for general use on HDDs • Super-fast read/write of large files used for video, animation, photography, and graphics • Good for large files • Requires 3 or more disks	• Fast and safe • Data protected if a disk fails and protects during rebuild • Best for data archiving and user needing the highest data reliability • Good for large files • Requires 4 or more disks	• Fast and safe • Best for businesses or those needing high performance with increased reliability • Good for large files• • Requires 4 or more disks

RAID 6, 6+: * RAID 6 is best for HDDs, and RAID 6+ is best for SSDs.

STRIPES? MIRRORS? PARITY? WHAT?!

Striping spreads the data from one volume over multiple drives. Each drive contains only part of the volume.
Mirroring uses multiple drives to create a volume. Each drive contains a copy of the entire volume.
Parity computations are used for fault tolerance by calculating the data in two drives and storing the results on a third. *Dedicated Parity* is when this information is all stored on a single drive. *Distributed Parity* spreads the data across all the drives in the array.

What You Do	What You Need	What We Suggest
Photography, video, and audio editing	Lightning-fast access for scratch disk use	• RAID 0 for data access speed (Caution: RAID 0 gives no protection against disk failure)
Run a data server	Speed, safety, and flexibility	• RAID 5 to give flexibility along with fast data access and full protection from disk failure
Run a business with critical data	Complete protection against disk failure	• RAID 1 for maximum protection against disk failure
Design work, photography, animation, etc.	Fast access, safe storage, and meet deadlines	• RAID 4, 5, 6 or 6+ for great speed, data safety, and the ability to work through disk failure • RAID 1+0 if you have four or more disks and need to write many small files to your disk
Use your computer for work and play, and for storing music, photos, and other important files	Fast access and protection against disk failure	• RAID 4, 5, 6 or 6+ to give fast data access and keep files safe from disk failure • RAID 1+0 if you have four or more disks and need to write many small files to your disk

WANT TO LEARN MORE?

For a more extensive explanation of RAID and all it can do for you, check out our blog post at www.macsales.com/understandingraid

MACDRIVE
Access Mac Disks on Windows

MacDrive lets you seamlessly access Mac-formatted disks, drives, SoftRAID sets, and AppleRAID sets on a Windows PC. Just connect your drive to a PC, and Windows uses the disk as if it were Windows formatted.

- Straightforward: access almost any direct attached internal or external Mac-formatted disk including hard drives, CDs, DVDs and more
- Pliant: supports read/write HFS+, read APFS
- Mighty: create and partition Mac disks direct from Windows
- Cutting-edge: repair errors on Mac disks — browse Time Machine back-ups and copy files and folders
- Compatible: works with Apple's Boot Camp and VMware and Parallels

MacDrive Standard   **MacDrive Pro**
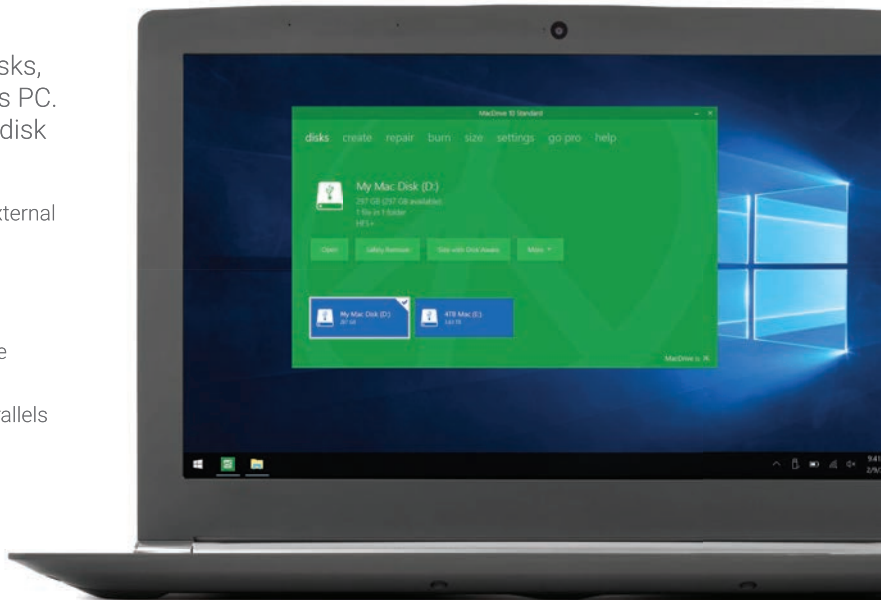
DISK AWARE
Find Large Files Fast | Windows

It's finally easy to identify large files and folders eating up space on your computer and connected disks. Disk Aware for Windows gives you a visual overview of your drive, showing you how much space is allocated to different items via a colorful wheel. Cleaning your disk has never been this easy, and dare we say... fun!

ACRONIS TRUE IMAGE 2021
Complete Cyber Protection | Mac & Windows

Acronis True Image is a powerful backup and antimalware solution that protects you from today's threats. Make accidents, failures, and attacks a thing of the past.

- Flexible backups: from full system images to individual files
- Recoveries: fast and reliable, quickly restore your entire system to the same or new hardware
- Disk cloning: all-in-one recovery drives, end-to-end encryption ensure your data is always safe
- Antivirus: on-demand scans of your full system or those files typically targeted by malware

Upgrade to advanced Acronis solutions with cloud backup

ADVANCED ANTIMALWARE PROTECTION
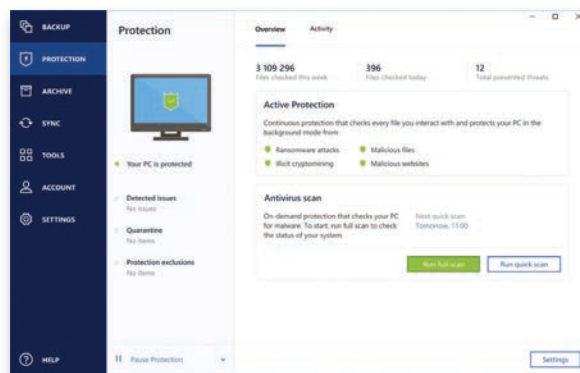
Easy backup and antivirus protects everything including photos, files, applications, systems, and the devices they're on – through an intuitive interface that's accessible from anywhere.

NEW! OWC MERCURY PRO U.2 DUAL
Up to 2447MB/s | Up to 32TB | Mac & Windows

The perfect combination of blazing-fast NVMe SSD performance and massive capacity in a compact design. It's ideal for routine backups to high-bandwidth pro creative uses.

- Flexible: two drive bays use 2.5-inch or 3.5-inch U.2 SSDs
- Massive capacity: up to eight NVMe M.2 SSDs with OWC U2 Shuttle adapters
- More RAID options: multiple NVMe SSDs offer more RAID choices
- SoftRAID: manages, monitors, and protects your data
- Protected: up to 3 Year OWC Limited Warranty

2.0TB-32TB COMING SOON

OWC MERCURY ELITE PRO DOCK
Up to 773MB/s | Up to 36TB | Mac & Windows

The Thunderbolt 3 do-it-all tool! Ample storage space to create and organize media libraries. The performance you need to work in Adobe Creative Suite, Avid, Affinity Photo, DaVinci Resolve, and others. Connect all your favorite peripherals via USB. Quickly ingest your shoots and drone footage via the frontside card reader. Keep connected at top speed with Gigabit Ethernet.

- Flexible: (2) bays for 2.5-inch or 3.5-inch SATA drives
- Hardware RAID options: RAID 0 speed, RAID 1 redundancy, span capacity, JBOD/Independent
- Easy uploads: frontside SD 4.0 Card Reader
- Visual: dedicated DisplayPort 1.2 for additional up to 4K display
- Connected: (2) USB 3.1 Gen 1 ports
- Protected: up to 3 Year OWC Limited Warranty

4.0TB–36TB

A PORTABLE POWERHOUSE

OWC MERCURY ELITE PRO MINI
Up to 540MB/s | Up to 4.0TB | Mac, Windows, Chrome OS, & iPadOS

The perfect data transfer and storage powerhouse for client meetings, studio sessions, and organizing your personal media.

- Versatile: choose from 2.5-inch HDD or SSD models
- Mobile: bus powered and compact
- Compatible: USB 3.1 Gen 2 and eSATA
- Protected: up to 3 Year OWC Limited Warranty

500GB–4.0TB

★★★★★

Practical and easy
Perfect for my application when transferring big video files to another Mac.

THE PERFECT DUAL DRIVE PORTABLE FOR ON-THE-GO PROS

OWC MERCURY ELITE PRO DUAL MINI WITH USB-C
Up to 989MB/s | Up to 8.0TB | Mac, Windows, & Chrome OS

This lightweight RAID solution covers your media storage and backup needs, and you don't have to carry an AC adapter.

- Powerful: (2) universal drive bays for 2.5-inch HDDs or SSDs
- Hardware RAID options: choose RAID 0 or 1, span, or Independent
- Mobile: bus powered and compact
- Protected: up to 3 Year OWC Limited Warranty

480GB–8.0TB

★★★★★

RAID Done Right (USB-C)
Another well designed product from OWC. Returned two tries with a LaCie Rugged RAID 4TB, which is TB2. This USB-C product from OWC just works...

ESSENTIAL STORAGE FOR EVERYONE

OWC MERCURY ELITE PRO
Up to 283MB/s | Up to 18TB | Mac, Windows, & Chrome OS

Handy and easy-to-use storage for everything from photos and music, to presentations and record-keeping. You can even store your favorite movies and games!

– Robust: Apple Time Machine and Windows File History ready

– Unassuming: fanless for quiet operation

– Flexible: use with Mac, Windows, Linux, PS4 and Xbox consoles, and Smart TVs

– Protected: up to 3 Year OWC Limited Warranty

1.0TB–18TB

OWC MERCURY ELITE PRO DUAL
Up to 474MB/s | Up to 36TB | Mac, Windows, & Chrome OS

Dual bay hardware RAID that seamlessly integrates with large-scale production studios, your home office computer, and everything in between.

– Powerful: (2) universal 3.5-inch drive bays

– Hardware RAID options: RAID 0, RAID 1, span, Independent

– Intelligent: powers down drives when inactive to conserve energy and reduce wear

– Protected: up to 3 Year OWC Limited Warranty

2.0TB–36TB

Thunderbolt 2 + USB 3, USB 3 + eSATA, or USB 3 + FireWire models available
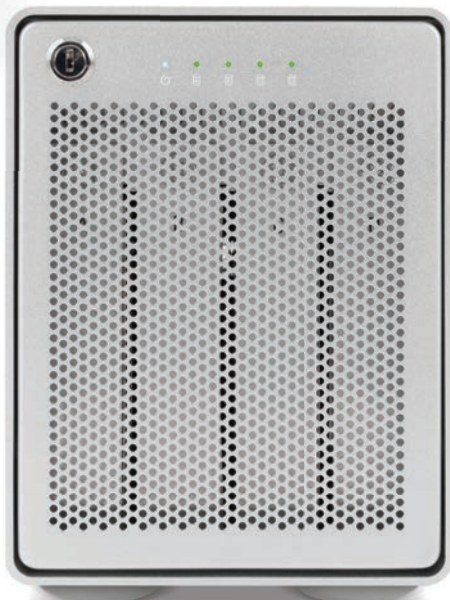
OWC MERCURY ELITE PRO QUAD
Up to 947MB/s | Up to 72TB | Mac, Windows, & Chrome OS

All the great features of our ThunderBay line, advanced softRAID capabilities, PLUS universal USB connectivity so you can connect to virtually any Mac or PC!

– Flexible: (4) universal 2.5-inch or 3.5-inch drive bays

– Connected: works with all USB systems and Thunderbolt 3 compatible

– Prepped: plug and play RAID Ready

– Protected: up to 3 Year OWC Limited Warranty

4.0TB–72TB

★★★★★

Just what I needed
This is ideal in non-Thunderbolt format; and while it's not exactly future-proof, this configuration will last a good while.

DIGITAL LIFE ESSENTIALS

OWC EXPRESS
Up to 155MB/s | Up to 2.0TB | Mac, Windows, & Chrome OS

The 2 oz, pocket-sized enclosure that offers bus-powered personal storage performance in an ultra-portable design.

– Stylish: available in black or silver
– Mobile: pocket-sized and ultra-lightweight
– Convenient: bus powered
– Protected: up to 3 Year OWC Limited Warranty

1.0TB to 2.0TB

OWC MERCURY ON-THE-GO PRO
Up to 500MB/s | Up to 4.0TB | Mac, Windows, & Chrome OS

Show off your storage style with a unique transparent design. This fanless acrylic enclosure protectively cradles a 2.5-inch SATA HDD or SSD and offers FireWire and/or USB connectivity.

– Convenient: bus powered, no adapter required
– Mobile: lightweight, ultra-portable and impact-resistant
– Options: USB 3 or USB 3 + FireWire models available
– Protected: up to 3 Year OWC Limited Warranty

120GB–4.0TB

"Performed very well … topped the chart among pocket-size portable external hard drives." – CNET

★★★★★

Compact & Fast
Connection to our 2010 MacBook Pro was seamless, and the backup speed is outstanding. Truly plug and play. THANK YOU, OWC!!

STACKS PERFECTLY WITH MAC MINI!

OWC MINISTACK
Up to 208MB/s | Up to 18TB | Mac, Windows, & Chrome OS

The compact, stackable, external hard drive designed to complement the look and feel of the latest Mac lineup. With a footprint identical to the 2010 and later Mac mini, the two stack together for seamless desktop integration.

– Precise: stacks perfectly with Mac mini
– Quick: high-speed USB 3.1 Gen 1 interface
– Quiet: a whisper-quiet MagLev fan
– Protected: up to 3 Year OWC Limited Warranty

1.0TB–18TB

OWC DRIVE DOCK
Up to 981MB/s | Dual drive bays | Mac, Windows, & Chrome OS

The ultimate high-performance bare drive access tool. A compact, easy solution for creative workflows, backups, or other tasks that require constant access to multiple drives.

- Compatible: accommodates both 2.5-inch and 3.5-inch drives
- Simple: hot-swap, read multiple drives at once, or boot from bare drives
- Flexible: USB 3.2 Gen 2 works with both USB-C and Thunderbolt 3 ports
- Protected: up to 3 Year OWC Limited Warranty

NEWERTECH VOYAGER S3
Up to 500MB/s | Up to 6.0TB | Mac, Windows, & Chrome OS

Swap drives at will and safely eject them at the touch of a button.

- Compatible: use with 2.5-inch and 3.5-inch drives
- Durable: SATA connectors built for long-term, repetitive use
- Streamlined: connect via USB (3.0/2.0) to your Mac or PC
- Protected: up to 3 Year OWC Limited Warranty

"It's a boon for those moving on from older machines but want to keep a SATA drive or two active."
— John Martellaro, The Mac Observer

NEWERTECH UNIVERSAL DRIVE ADAPTER
Connects to your computer via USB 3.1 Gen 1

The perfect tool to access bare drives via USB - without opening a computer or drive enclosure. Compatible with nearly any 2.5, 3.5, or 5.25-inch drive. It's the go-to access tool for working with bare IDE, ATAPI, and SATA drives.

- Connect: use ANY 2.5/3.5/5.25-inch drive
- All-Purpose: transfer files and access data
- Transform: turn swapped-out drives into external drive
- Expansive: supports hard drives up to 16TB
- Protected: 1 Year Newer Tech Limited Warranty

PRAISE FROM THE PROS
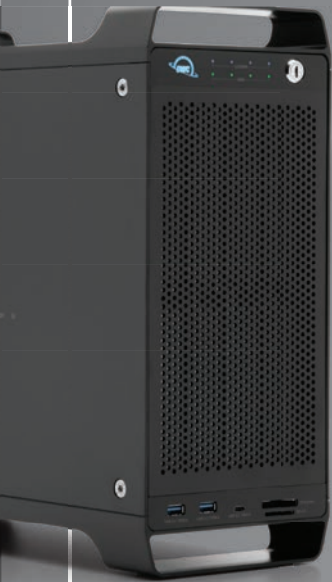
THUNDERBAY FLEX 8 p. 10

"The pandemic has made post-production and working from home feel more isolated than ever, so the Thunderbay Flex 8 has felt like a godsend. With the upper 4 bays configured as an SSD Stripe, it's been perfect as the place to set the WMM Team's Dropbox and Google Drive accounts to, so the Team and I can regularly share files and folders on the cloud without having to worry about running out of space on my computer's internal storage. It's helped me feel more connected with the team, almost as if I'm back in a production company office.

And with the Dock able to quickly access and dump all incoming Shuttle Drives and the Lower 4 bays working as a massive RAID 5 storage set, I am able to use it as the Flex 8 is an All-in-One hub for all of the various projects I have coming in and out with the team."

— *Steven LaMorte*

Director at We Make Movies: A worldwide filmmaking community dedicated to making the movie that you want to see.

Instagram: @WeMakeMovies

THUNDERBLADE p. 15

Chris Vanderschaaf is an award-winning editor, director, & high-speed cinematographer specializing in shooting 1000fps for television shows, commercials, action sports, brand and music videos. As a Phantom camera owner/operator, he lives by the creedo "everything looks cooler in slomo."

"The OWC ThunderBlade is a game changer! Not only are my offloads and data transfers exponentially faster but I can edit my raw .cine files natively."

— *Chris Vanderschaaf*

Phantom High-Speed Cinematographer

Instagram: @chrisvtv
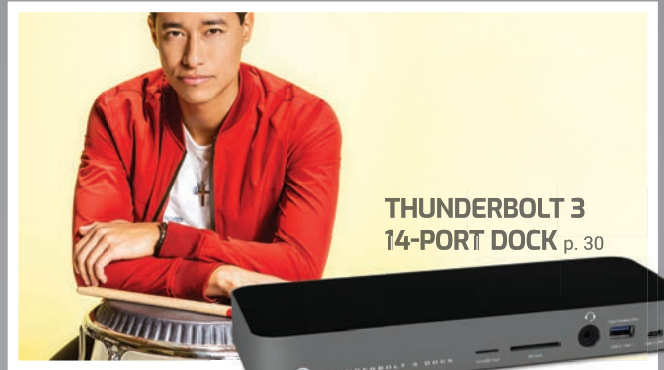
THUNDERBOLT 3 14-PORT DOCK p. 30

"I'm always striving to make my workflow more efficient and reliable in order to make project deadlines. The more I have to wait for files to transfer, or sessions to load, videos to render, the less time I have for creativity. The Envoy Pro EX drive makes my life so much easier in my studio, or on the road. The Thunderbolt 3 Dock gives me every connection I need and I love that it lets me run my entire home studio off of my Macbook while charging it!"

— *Tony Succar*

2-time Latin Grammy Awards-winning Artist / Producer

Instagram: @tonysuccar

USB-C TRAVEL DOCK p. 31

"Since being at home because of the Pandemic, I'm not traveling to my studio as much. As a producer/engineer/programmer/composer, and software beta tester, I need access to fast and portable hard drives at all times. I need them to be reliable, road worthy, and compact. That's why I choose OWC HDDs, SSDs and peripherals and have done so for the last 16 years. I recently purchased a 2019 MBP to update my portable rig but because this laptop only has USB-C ports, I had to add a device to give me the expandability I need to connect other devices. Of course, I looked to OWC and went with the Travel Dock!

The OWC Travel Dock allows me to quickly connect drives via USB 3 and C, a video monitor via HDMI, and an SD card all with lightning-fast transfer rates! It does all this for an extremely reasonable price."

— *Kwiz Ryan*

Producer, Composer, Engineer, Artist Development

Instagram: @kwiz1

E-LEARNING MADE EASY

OWC ENVOY PRO EX WITH USB-C
Inside this sleek, award-winning design you'll find a blazing-fast, desktop-class, portable SSD with speeds up to 980MB/s. It's rugged, dustproof, and waterproof to handle life on the go.

USB-C TRAVEL DOCK
5 Ports | Easily add a keyboard, mouse and larger monitor to your USB-C equipped Chromebook or laptop.

LAPTOP STANDS FOR MAC OR PC
Elevate your laptop for better comfort and ergonomics. Hides cables and holds external keyboard to organize your desk.

AUDIO FOR EVERYONE
Bring quality audio to your virtual classroom, block out the world and enhance focus, or get more enjoyment from your study break gaming session. Save 70% or more on wired and wireless audio options for every budget.

ALL THE THUNDERBOLT YOU'VE ALWAYS WANTED!

OWC DOCK AND HUB FAMILY

For the first time ever, add more full speed, fully functional Thunderbolt ports to your computer — connect to past, present and future Thunderbolt and USB devices.

NEW! OWC THUNDERBOLT DOCK

11 Ports | Up to 90W Charging Power | Mac & Windows

Four Thunderbolt + four USB ports, Ethernet, audio, and card reader to massively expand your Thunderbolt Mac or any Thunderbolt 4 PC.

— More flexibility: add a mix of up to seven Thunderbolt/USB-C and USB devices

— More reliable sharing and streaming: gigabit Ethernet eliminates low quality patchy Wi-Fi, and is ideal for IP-based workflows and secured networks

— More content: ingest photos and movies at speeds up to 312MB/s via the SD card reader

— More audio: plug headphones and mics into the audio in/out jack

— Compatible: Thunderbolt certified for Mac and Windows. Works with all the Apple M1 Macs, any Apple "intel" Mac with Thunderbolt 3, and any Thunderbolt 4 PC

ONE HUB
TO CONNECT
THEM ALL

NEW! OWC THUNDERBOLT HUB
5 ports I Up to 60W Charging Power I Mac & Windows

Add three Thunderbolt/Universal Type-C ports and one USB port to greatly expand the connection possibilities of your computer.

- Plug it all in: same device compatibility and performance whether plugged into this hub or directly into your machine
- More **devices: connect more storage, up to two 4K displays or one** 5K/6K/8K display, and accessories
- Powerful: Thunderbolt 4 host port also provides power delivery/charging
- Compatible: Thunderbolt certified for Mac and Windows. Works with all the Apple M1 Macs, any Apple "intel" Mac with Thunderbolt 3, and any Thunderbolt 4 PC

DOCK EJECTOR
Your Drives and Data, Safely Ejected in One Click

Connecting multiple devices to an OWC dock is an easy way to streamline your workflow and minimize desktop cable clutter. But with only one cable connecting your dock to your computer, it's easy to forget to properly eject storage devices which could cause lost or damaged files.

The OWC Dock Ejector is a FREE solution that protects your data. The app lets you safely disconnect all drives in a single click. It ensures all data has been written before any drive is unmounted. It will even warn you before you accidentally eject an in-use drive.

- Optimized for all OWC docks
- Available for Mac or Windows

OWC THUNDERBOLT 3 DOCK

14 Ports | 85W Charging Power | Mac & Windows

★ ★ ★ ★ ★

The best selling, top-rated dock

Bring functionality back to your notebook. Through a single cable, the OWC Thunderbolt 3 Dock brings an unprecedented combination of ports, convenience and power to your Thunderbolt 3-equipped Mac or Windows PC. The OWC Thunderbolt 3 Dock lets you quickly access displays and peripherals, while minimizing desk clutter.

- Visual: up to two 4K displays or one 5K display
- Versatile: daisy-chain up to 5 additional Thunderbolt devices
- Connected: 1Gb Ethernet for sharing and streaming
- Compact: easy to transport with a small desktop footprint
- Protected: 2 Year OWC Limited Warranty

"The Thunderbolt 3 Dock gives me every connection I need and I love that it lets me run my entire home studio off of my Macbook while charging it!"

— Tony Succar, 2-time Latin Grammy Awards-winning Artist / Producer

OWC USB-C DOCK

10 Ports | Up to 60W Charging Power | Mac, Windows, Chrome OS, & iPadOS

Reconnect your devices to your USB-C or Thunderbolt 3-equipped computer with the OWC USB-C Dock. The full-featured connectivity companion you've been waiting for.

- Visual: Mini DisplayPort for additional 4K monitor
- Connected: 1Gb Ethernet for sharing and streaming
- Compact: easy to transport with a small desktop footprint
- Comprehensive: includes Mini DisplayPort to HDMI adapter
- Stylish: choose from 4 color options
- Protected: 2 Year OWC Limited Warranty

OWC THUNDERBOLT 3 PRO DOCK

10 Ports | 10Gb Ethernet | Mac & Windows

Designed for pro creative workflows! The Thunderbolt 3 Pro Dock features a 10Gb Ethernet connection that enables shared workflow environments. Frontside CFast and SD card readers handle high-res 4K/8K RAW video and RAW photo files. Two Thunderbolt 3 ports let you add studio-level storage, RAID arrays, a 5K monitor, or an eGPU for graphics processing, while its three USB 3.1 ports connect typical peripherals.

- Visual: Connect two 4K displays or one 5K display
- Connect quickly: 10Gb Ethernet for the fastest transfers
- Convenient: features SD 4.0 card reader and CFast 2.0 card reader
- Compact: easy to transport with a small desktop footprint
- Protected: 2 Year OWC Limited Warranty

SIMPLIFY YOUR MOBILE LIFE

OWC USB-C TRAVEL DOCK
Up to 100W Pass-Through Power | Mac, Windows, Chrome OS, & iPadOS

Display, charge, connect, and import files while on the move. Palm-sized and lightweight, you can slip this handy dock into your bag and keep your space tidy with built-in cable storage.

– Versatile: HDMI port for easy display connections up to 4K

– Tidy: built-in compartment stores cable neatly

– Portable: pocket-sized and built to work from everywhere

– Protected: 2 Year OWC Limited Warranty

Travel Dock
100W pass-through power

NEW! Travel Dock E
With Ethernet port.

★ ★ ★ ★ ★

Great dock for a laptop
I bought this to help me connect my new 2020 MacBook Pro with older devices. With USB-3 ports, it is easy to connect to my existing external storage drives.

THE ULTIMATE BUS-POWERED PORTABLE MULTI-ADAPTER

OWC THUNDERBOLT 3 MINI DOCK
5 Ports | Bus-Powered | Mac & Windows

On-the-go or on a desktop, the OWC Thunderbolt 3 mini dock is the ultimate all-in-one portable dock for port-limited Thunderbolt 3 Macs and PCs. It is smartphone-sized with no AC adapter needed, adding two displays, two USB storage and desktop accessory devices, and Gigabit Ethernet networking to workflows via one integrated cable.

– Expanded visuals: two HDMI 2.0 ports for up to two 4K displays

– Faster internet access: Gigabit Ethernet for better streaming, sharing, surfing

– Keeps more devices connected: one USB 3.0 & one USB 2.0 port for a drive, card reader, mouse, and device charging

– Mobile and desktop use: compact, lightweight, and no AC adapter needed

– Protected: 2 Year OWC Limited Warranty

CONNECTIONS TO KEEP WORK FLOWING

OWC THUNDERBOLT 3 10G ETHERNET ADAPTER
Add 10GbE to your Thunderbolt 3 Mac or Windows

Add warp speed file transfers with the highest data integrity to your workflow with this bus powered portable ethernet supercharger. Synchronize multiple audio and video streams in real-time with AVB readiness.

- Blazing-fast: 10x faster than Gigabit Ethernet
- Compatible: works with Thunderbolt 3 Macs and Windows PCs
- Bus powered: energy efficient and no AC adapter needed
- Secure and stable: offers more reliable connection and data security than WiFi
- Portable: compact and lightweight
- Captive cable: ready to connect anywhere
- Protected: 1 Year OWC Limited Warranty

OWC THUNDERBOLT 3 DUAL DISPLAY ADAPTER
Work more efficiently with extra screen space

Multiple displays so you can see more of what you're working on, increase productivity, enjoy more immersive gaming, and even edit 4K video on one display as you preview raw video playback on the other. See more and do more while using just one of your system's Thunderbolt 3 ports!

- DisplayPort model: connect two 4K displays or one 5K display
- Efficient: no system performance impact
- Bus powered: energy efficient and no AC adapter needed
- Easy setup: plug and play with Mac
- Captive cable: ready to connect anywhere
- Compatible: works with Thunderbolt 3 Macs and Windows PCs
- Protected: 1 Year OWC Limited Warranty

THUNDERBOLT 3 & 4 CABLES
Supports power delivery up to 100W

- Compatible with Thunderbolt 3 and USB-C interfaces
- Up to 40Gb/s transfer speed
- Thunderbolt 3 available in 0.5 m, 0.7 m, 1.0 m, and 2.0 m lengths
- Thunderbolt 4 available in 0.8 m

OWC USB-C CABLES
For Mac, PC, tablets, and mobile

- Up to 10Gb/s transfer speed
- Available in 0.5 m, 0.9 m, and 1.8 m lengths
- Power your laptop, Thunderbolt 3, or USB-C device up to 60W

OWC THUNDERBOLT 2 CABLES
4K workflow ready

- Up to 20Gb/s transfer speed and Thunderbolt (10Gb/s) compatible
- Available in 2.0 m length
- Available in black

OWC USB TYPE-A TO USB-C ADAPTER
Bridge the technology gaps in your workflow

USB Type-C is the latest USB interface standard, but it isn't backward compatible with thousands of USB Type-A devices still in use. Use this handy adapter to connect your older devices to USB-C-equipped computers, Chromebooks, and docks.

OWC CLINGON
Protect Your Cables from Strain/Disconnects

Secure your Thunderbolt (USB-C) connections to prevent work session interruption and possible data loss from cable strain and accidental disconnect in active, heavy traffic flow workspaces.

KEEPING YOU IN THE FAST LANE WITH
U.2 TECHNOLOGY

You like pushing the limits of your abilities and technology. You depend on OWC products – and knowledge – to keep you pushing ahead in the fast lane. That's why we're bringing you up to speed (pun intended) on the emergence of U.2 storage technology and how you can add it to your workflow.

U.2, M.2, NVME, PCIE...
MAKING SENSE OF THE TECHNOBABBLE

In a nutshell, all those acronyms are about how storage technology has evolved to offer you the best possible performance. Some are communication protocols, while others are physical connections. Together they lead us to where we are today with fastest SSD storage.

EFFECTIVE COMMUNICATION

PCIe SSDs were first used in the enterprise market as add-in cards because they offered a faster path of data transfer, but they were constrained by hardware and software technologies designed for slower hard drive storage. Enter NVMe (Non-Volatile Memory Express), designed from the ground up specifically for PCIe SSD storage.
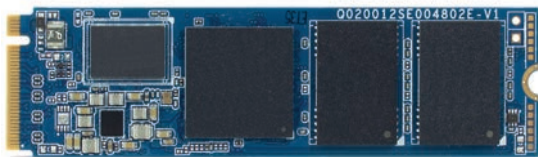

LOADING...

VS

LOADING...

LET'S GET PHYSICAL

PCIe SSD performance blew everything else away, so the race was on to incorporate PCIe SSD storage into thin laptops and tablets. Thus, the cost effective M.2 SSD was born. Often referred to as a "blade" or "gumstick" due to their physical shape and size, SSDs with an M.2 connector also became ideal for creating extremely fast pocket-sized drives found in the OWC Envoy line (p. 6) which are powered by the OWC Aura P12 Pro M.2 SSD (p. 44).

U.2 (AND OWC) DOES IT ALL

Created as an extremely cost-effective "one-for-all" server and enterprise drive interface, a U.2 connector is designed to work with SATA, SAS, and NVMe drives. Recognizing this was a great opportunity to build upon the proven performance attributes and affordability of M.2 drives, OWC began developing U.2 connector equipped solutions because U.2 drives offer key advantages over M.2 drives:

— 2.5-inch or 3.5-inch form factor for common drive bay installation

— Larger form factor allows higher storage capacities

— Larger form factor provides built-in heat dissipation

— Easy access hot swap support

QUICK REFERENCE GLOSSARY:

M.2: connector type...uses PCIe or SATA communication

U.2: connector type...uses PCIe, SAS, and SATA communication

NVMe: optimizes SSD data flow over PCIe

PCIe: computer hardware communicationsystem used to transfer data between components like RAM, CPU, & SSD

SATA: computer hardware communication system originally designed for HDD data transfer and later used with SSDs

INNOVATIVE
OWC U.2 SOLUTIONS
FOR YOUR WORKFLOW

Blazing speed, more capacity, and easy hot swap access....just a few reasons why you should consider incorporating U.2 solutions into your workflow. Naturally, OWC offers a variety of groundbreaking ways to immerse yourself in the latest advancement in storage technology. All with proven OWC reliability and pro-level performance.

p. 36

p. 37

U.2 EARLY ADOPTERS

Does your end-to-end workflow have PCs or enclosures with 3.5-inch drive bays? The innovative OWC U2 Shuttle is the world's first U.2 carrier shuttle for 3.5-inch drive bays that combines four NVMe M.2 SSDs into a swappable high capacity flexible RAID ready storage solution.

How to Use it:
Swap out and ship the compact and lightweight U2 Shuttle to the post lab where it swaps into a 3.5-inch U.2 equipped PC or storage solution quickly and economically.

NOTEBOOK/SFF/AIO USERS

Notebook, small form factor, and All-In-One computers typically lack the room for an expansion slot. Now you can add video production, audio processing, data storage, networking, and other pro-level capabilities to your workflow with the OWC Mercury Helios 3S external PCIe expansion solution.

How to Use it:
With the OWC U.2 NVMe Interchange System, you can offload the day's shoot into the OWC Mercury Helios 3S, quickly pull the Interchange System tray-mounted U.2 NVMe SSD, out and send the drive on to post production. Imagine... no more tedious drive enclosure disassembly to access the storage drive or costly shipping of the entire enclosure to the post lab.

UP TO **64TB** CAPACITY COMING SOON

UP TO **8 TOTAL** NMVe SSDs!

p. 21

p. 36

UP TO **16 TOTAL** NMVe SSDs!

UP TO **128TB** CAPACITY COMING SOON

p. 10

p. 36

p. 37

PROS SEEKING FAST & MASSIVE CAPACITY

Looking to add massive – up to 64TB coming soon – fast U.2 storage to your workflow? The compact, dual-bay Mercury Pro U.2 Dual storage solution is your ticket! It offers the flexibility of multiple drive configurations to meet your specific need:

- 2.5 or 3.5-inch NVMe U.2 SSD in each bay
- A single NVMe M.2 SSD with a U.2 adapter in one or both bays
- Up to eight NVMe M.2 SSDs via the OWC U2 Shuttle, the world's first U.2 carrier shuttle for 3.5-inch drive bays that combines NVMe M.2 SSDs into a high capacity, flexible RAID ready storage solution

How to Use it:
Mercury Pro U.2 Dual solutions with the OWC U2 Shuttle delivers faster speed and more RAID options than typical dual drive enclosures. You can ingest and edit video footage in real-time or backup large content libraries in a blink. While a performance heavyweight, this storage solution easily fits on a DIT cart, in a rack, or on your office desktop. When you need to send your project to the lab, the OWC U2 Shuttle's lightweight design dramatically lowers shipping costs.

PROS SEEKING A WORKFLOW WORKHORSE

Massively boost your workflow productivity with ThunderBay Flex 8. It's the world's first 3-in-1 Thunderbolt 3 storage, docking, and PCIe expansion solution for digital imaging, VFX, video production, and video editing professionals. Four of its eight 2.5 or 3.5-inch drive bays can use U.2 NVMe SSDs. There's an abundance of ports for connectivity, card readers for fast media ingest, and an expansion slot to expand your capabilities.

How to Use it:
Its four U.2 bays let you use U.2 SSDs by themselves, or put them into an OWC U.2 NVMe interchange system tray fortransport/shipping. Or, combine up to 16 M.2 SSDs with the OWC U2 Shuttle for up to 128TB capacity coming soon to create an unbeatably fast RAID volume that's easily swapped and transported. With the PCIe expansion slot, you can add a 4K video capture card for direct ingest of multi-stream high-res footage. Or, add an audio card to record high-quality tracks, then edit and archive tracks.

A GALAXY OF POSSIBILITIES AWAITS
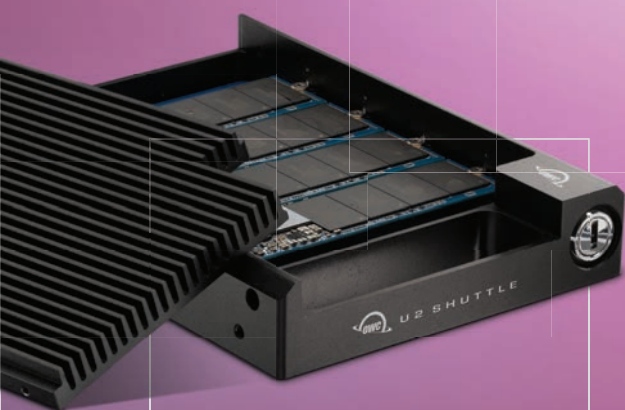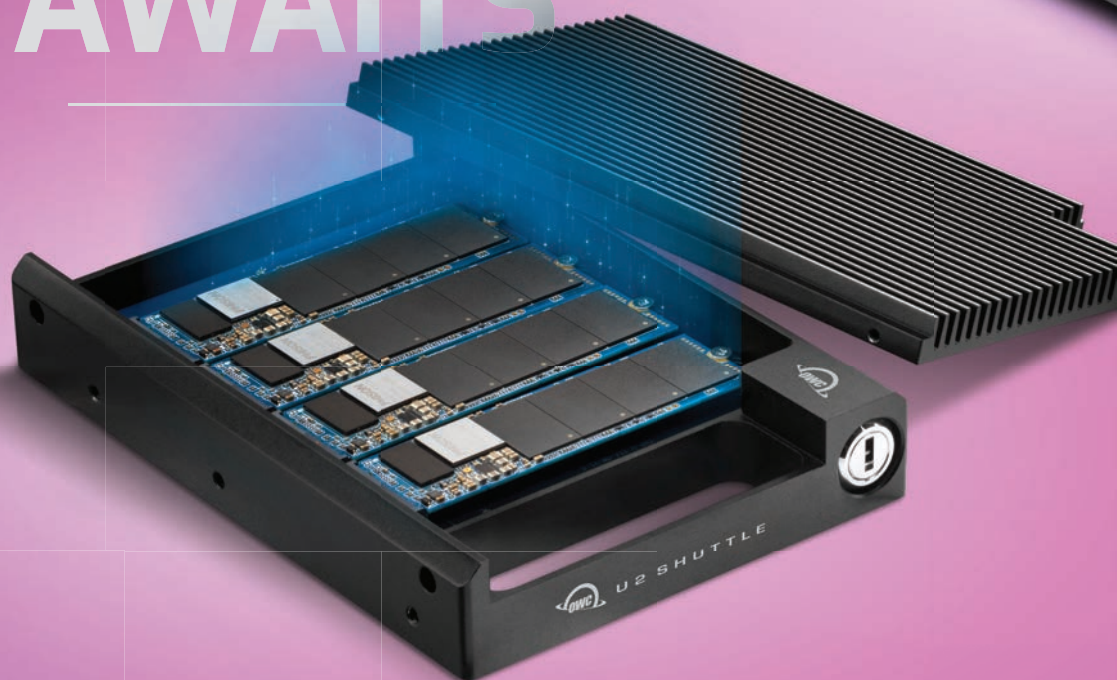
IDEAL FOR MEDIA PRODUCTION WORKFLOWS!

NEW! OWC U2 SHUTTLE
Up to 1556MB/s | Up to 16TB | Mac & Windows

World's first U.2 carrier shuttle for 3.5-inch drive bays that combines four NVMe M.2 SSDs into a swappable, high capacity, flexible and RAID-ready storage solution. Built for OWC storage and PCIe expansion solutions, this innovative carrier shuttle can also be used with U.2 connector equipped PCs and servers.

- Configurable: choose a solution or add your own NVMe SSDs
- RAID ready: RAID 0, 1, 4, 5, 6, 6+ or 1+0 (10) for speed, protection, or the best of both attributes
- Compatible: use with OWC Helios 3S, ThunderBay Flex 8, Mercury Pro U.2, as well as in a computer with U.2 support and an available 3.5-inch drive bay
- Easy swaps: move between OWC U.2 devices, PCs, enclosures, and servers
- Ideal for media workflows: dramatically lowers production-to-lab shipping costs

OWC MERCURY HELIOS 3S
Up to 40Gb/s | PCIe Expansion | Mac & Windows

Give your slotless Mac, Windows PC notebook, or desktop machine the gift of PCIe card use. You can also add video production, audio processing, data storage, networking, and other pro-level capabilities to your workflow via Thunderbolt 3.

- Lightning-fast: 40Gb/s transfer speeds (2) Thunderbolt 3 ports
- See more: dedicated DisplayPort for adding a high resolution display
- Charge while working: 85W of notebook charging
- Play your card: uses half-length, full-height, single or double-width cards
- Easy card installs: no tools required
- Secure workflow: locking 12V power connector
- Protected: 3 Year OWC Limited Warranty

TURN MERCURY HELIOS 3S INTO A BLAZING FAST EXTERNAL SSD!

With the Accelsior PCIe SSD family, you can choose "add your own" single NVMe SSD PCIe cards all the way to four blade configured solutions that deliver over 6000MB/s real-world speed.

OWC U.2 NVME INTERCHANGE SYSTEM
Turns Mercury Helios 3S into a Swappable U.2 NVMe SSD Storage

Revolutionize your data storage. A locking drive bay and protective carrier tray offer the ideal combination of security with easy access, swaps, and transport of U.2 NVMe SSDs up to 16TB. Speeds over 6x faster than SATA drives. Ideal for both production and post-production operations!

- Full speed ahead: up to 2,631MB/s real-world tested performance
- Durable solution: protects U.2 connector for improved drive longevity and investment
- Use anywhere: enables U.2 NVMe drive use in the studio or out in the field
- Designed for global workflows: dramatically lowers production to lab shipping costs

TURN YOUR COMPUTER INTO A GRAPHICS POWERHOUSE

BREAK FREE OF FACTORY INTERNAL GPU LIMITS!

UP TO **6.4x**

HIGHER FPS
Jump from 10.1 FPS to 65 FPS and enable 1080p gaming

UP TO **20x**

FASTER EFFECTS & RENDERS
Save time and money with accelerated effects, renders, and computations in pro apps and games

AKITIO NODE TITAN
Up to 40Gb/s | Mobile eGPU | Mac & Windows

Transform your notebook or slotless computer into a high-performance gaming, video editing, and graphics workstation. All for a fraction of the cost of buying or building a new machine! This external graphics processing unit connects to a Thunderbolt 3-equipped computer, offering the power and space needed for today's most popular double-wide full-length/full-height AMD and NVIDIA graphics cards.

— Charge while working: 85W of notebook charging

— Spacious design: enables use of large double-width graphics cards

— On-the-go graphics: retractable carrying handle for easy transport

— Toolless access: thumb screws for easy card installation

— Protected: 3 Year OWC Limited Warranty

**AKITIO NODE TITAN +
RADEON RX 580**
HD gaming and beyond with incredible VR.

**AKITIO NODE TITAN +
RADEON PRO W5700**
Pro-grade workstation GPU built for content creators.

LEVEL-UP YOUR SETUP

THE ULTIMATE PLUG AND PLAY EXPANSION KIT

★ ★ ★ ★ ★

Unit works great!
Love that we can use PCIe cards with Mac devices that need SDI output!

AKITIO NODE DUO
Up to 40Gb/s | 2 PCIe slots | Mac & Windows

With the space needed to use two half-length PCIe cards simultaneously, you can add real expansion and capabilities to Thunderbolt 3-equipped computers. Use it to expand your workspace view by adding an extra display via the DisplayPort 1.2 port.

- – Flexible: edit, capture, save, share, connect and more
- – Expands view: DisplayPort 1.2 for additional high-res display
- – Expands range: 60W charges notebook while you work
- – Protected: 2 Year OWC Limited Warranty

OWC ACCELSIOR 4M2
PCIe 3.0 M.2 NVMe SSD Storage Solution

This NVMe M.2 SSD pushes the boundaries of SSD development with over 6,000MB/s of real-word speed.

Up to 1.0TB–16.0TB

NEWERTECH MAXPOWER
4-Port USB 3.1 PCIe Controller Card

High bandwidth USB ports for Mac Pro and PC with maximum wattage and data throughput, for a total of up to 5Gb/s and 15W.

OWC
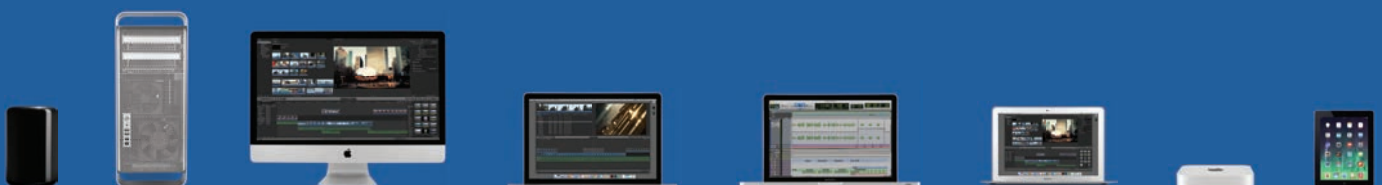
GO DASHING
THRU DEADLINES

Whatever your speed and storage needs,
there's an OWC SSD ready to deliver a wonderland
of performance and reliability.
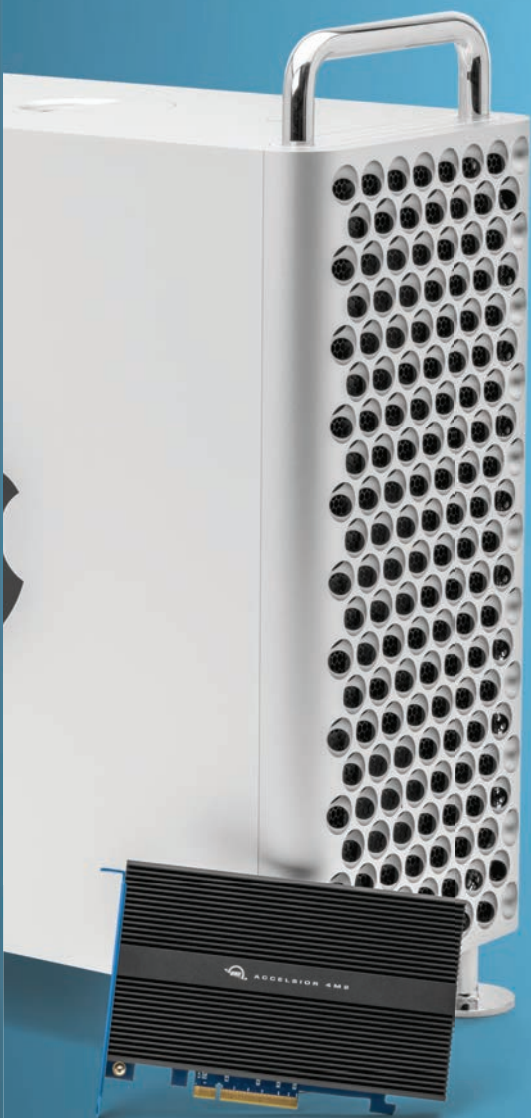
OWC ACCELSIOR 4M2
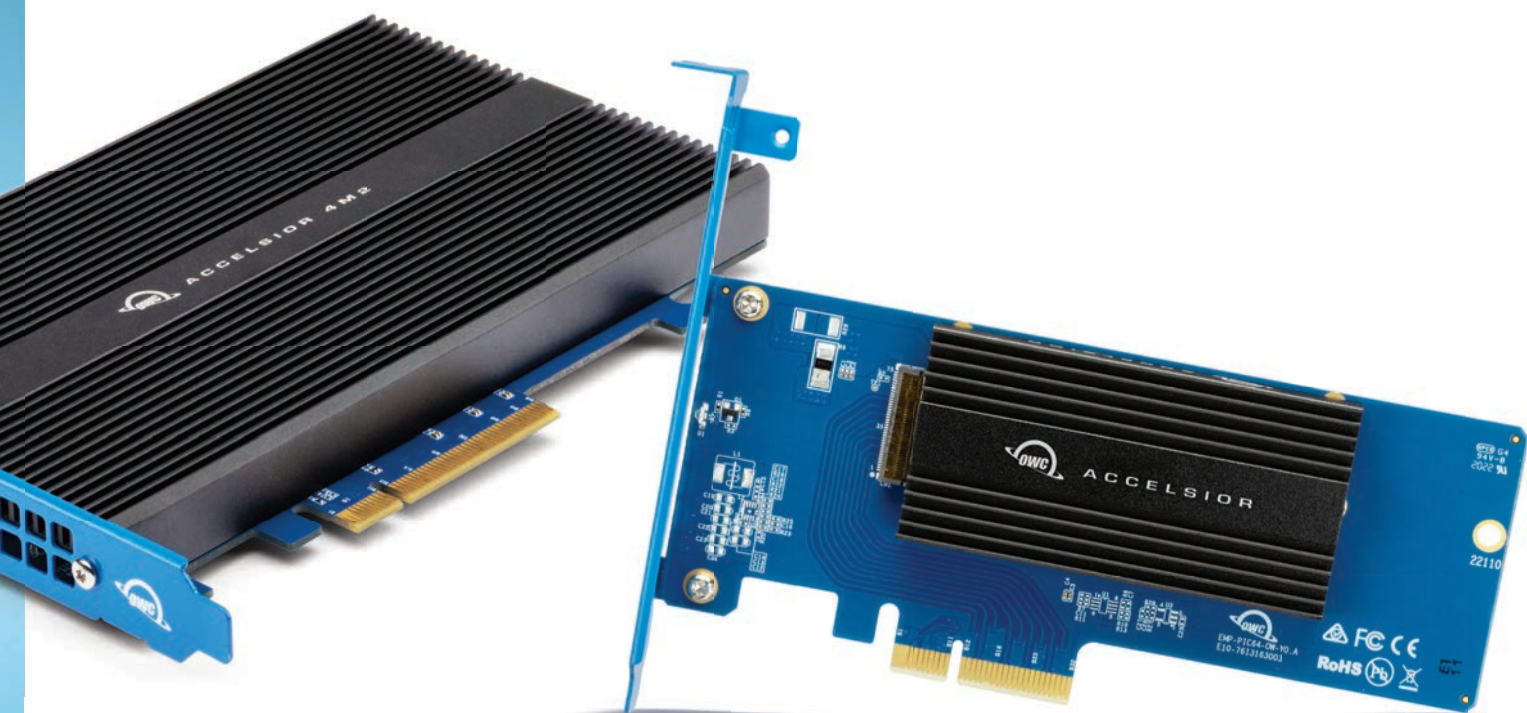### Over 6000MB/s | Up to 16.0TB | Mac & Windows

Nearly a decade after our first SSD introduction, we continue to push the boundaries so you can work and play at your best. With over 6,000MB/s of real-world speed, you can breeze through data-intensive large-format video editing, greatly improve your VR/AR/MR experience, and play your best in extreme gaming.

- Bootable: start working in seconds
- Slot-powered: no extra power cables needed
- Deployment ready: pre-configured solutions undergo performance verification
- Highly versatile: installs into a full-height, half-length x8 or x16 PCIe 3.0 or 2.0 slot
- Plug and play: no drivers needed
- Easy RAID: advanced SoftRAID engine simplifies setup
- Protected: up to 5 Year OWC Limited Warranty

1.0TB–16.0TB

THE ULTIMATE PERFORMANCE DRIVE FOR 2019 MAC PRO, 2012 AND 2010 MAC PRO, AND PC TOWERS

NEW! OWC ACCELSIOR 1M2
Over 3200MB/s | Up to 4.0TB | Mac & Windows

The speed boosting, capacity expanding NVMe SSD solution for pro content creators, performance enthusiasts, and gamers. Test-certified for use with 2019 Mac Pro, 2010-2012 Mac Pro, and PC towers.

- OWC Aura SSD powered: advanced NVMe technology for bandwidth-heavy video, audio, photography, and design needs
- Store more: adds capacity for critical footage, images, files and games.
- Play better: experience immersive, stutter-free game play
- Cool: aluminum alloy heat sink for silent, throttle-free performance
- Protected: up to 5 Year OWC Limited Warranty

240GB–4.0TB

NEW! OWC ACCELSIOR 1A
Over 3200MB/s | Up to 4.0TB | Mac & Windows

After adding a higher capacity Aura PCIe SSD to your Mac, you can now use that replaced drive for data recovery, data migration, and additional storage capacity. Use with a Mac Pro tower, PC tower or PCIe expansion chassis like the OWC Helios 3S.

- Multipurpose: provides a variety of continued drive use options
- Compatible: supports Late 2013 to current Apple SSDs and all OWC PCIe Aura SSDs
- Maximize ROI: extends investment in and use life of original drive
- Store more: adds capacity for critical projects, files and games
- Protected: 1 Year OWC Limited Warranty

OWC AURA PRO X2
Up to 3282MB/s | Up to 2.0TB

Rejuvenate your Mac with performance that rivals the latest models at a fraction of the cost. Choose blade only or the full upgrade kit! Some kits even include an OWC Envoy Pro enclosure that repurposes the factory SSD into an external USB 3 drive.

- Like a new Mac: up to 2x faster than factory SSD
- Store more: up to 16x greater capacity than factory SSD
- Same but better: retains use feel, settings, and the ports you want
- Run at peak longer: consumes less power and runs cooler for longer battery life
- Protected: 5 Year OWC Limited Warranty

NVMe PCIE X4 SSD UPGRADE FOR SELECT 2013 AND LATER MACBOOK AIR, MACBOOK PRO, MAC MINI, AND MAC PRO!

240GB-2.0TB

★ ★ ★ ★ ★

Outstanding Performance!
My MacBook performs better than before with at least a 50% increase in performance. Thank you OWC for an outstanding product because it exceeded my expectations!

OWC AURA N
Up to 1600MB/s | Up to 1.0TB

Economically add years of useful life to your existing Mac notebook or Mac mini, economically. Choose blade only or full upgrade kit. Some kits even include an OWC Envoy Pro enclosure that repurposes the factory SSD into an external USB 3.0 drive!

- Maximize ROI: extends Mac use-life with higher speed and stamina
- Keep FAV files: up to 8x greater storage capacity than factory SSD
- Same but better: retains use feel, settings, and ports you want
- Extends run time: more efficient, cooler operation for longer battery life
- Protected: 3 Year OWC Limited Warranty

NVMe PCIE X2 SSD UPGRADE FOR SELECT 2013 AND LATER MACBOOK AIR, MACBOOK PRO, AND MAC MINI

240GB-1.0TB

OWC AURA P12 PRO
Up to 3400MB/s | Up to 4.0TB

The versatile internal or external performance booster. Keep your project on track with faster data transfers in the field, faster previews, renders, and processing in audio and VFX programs.
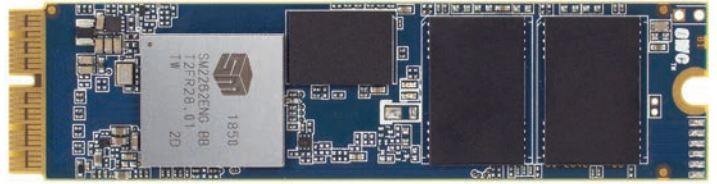
- Pro level speed: faster previews and renders, transfers, and streams
- Workstation-class: calibrated to endure write-intensive workflows
- Perfectly optimized: built-in SLC caching for burst performance
- Protected: 5 Year OWC Limited Warranty

ADVANCED NVMe M.2 SSD UPGRADE FOR PCS AND ENCLOSURES

240GB-4.0TB

NEW! OWC AURA P13 PRO
Up to 2771MB/s | Up to 2.0TB

The Aura P13 Pro might be small, but it delivers a heavyweight performance punch upgrade to computers and devices that use a 2242-sized M.2 SSD. It's the fastest compact SSD option on the market today.

- Class leading performance: for faster pro A/V workflows, video streaming, app/gaming load times, and more
- Compact solution: the best choice for computers and devices that utilize a 2242-sized M.2 SSD
- Advanced technology: for the highest reliability and performance
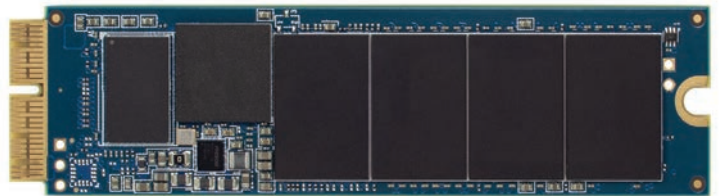- Protected: 5 Year OWC Limited Warranty

ADVANCED NVMe M.2 SSD UPGRADE FOR PCS AND ENCLOSURES

240GB-2.0TB

OWC MERCURY ELECTRA 6G
Up to 530MB/s | Up to 4.0TB | 2.5-inch SATA SSD

With burst speeds up to 530MB/s and the latest in flash NAND and controller technology, you can dramatically improve your everyday computing experience.

– Improves everyday computing: fast boots, app loads, and system responsiveness
– Dependable: wear leveling automatically distributes data evenly
– Intelligent integrity: manages free space and gradually refreshes data
– Extends battery life: standby power benefits for longer runtimes between charges
– Protected: 3 Year OWC Limited Warranty

120GB–4.0TB

OWC MERCURY EXTREME PRO 6G
500MB/s+ Sustained Over Entire Drive | Up to 4.0TB | 2.5-inch SATA SSD

The fastest sustained speed and performance upgrade avaialble for performance enthusiasts to production pros with a Mac or PC with a 6G SATA drive bay.

– No slowdowns: maintains read/write speeds exceeding 500MB/s over the entire drive capacity
– Saves money: get sustained speed instead of replacing a drive that slows down over time
– A/V ready: use with Blackmagic, Sound Devices, Atomos devices
– Protected: 5 Year OWC Limited Warranty

240GB–4.0TB

NEW! MERCURY ENTERPRISE PRO 6G
Up to 520MB/s | 16TB | 2.5-inch SATA SSD

The highest capacity 2.5-inch SATA 6G SSD available and engineered with enterprise-level technologies to deliver the highest performance and reliability.

– More storage: 16TB of capacity offers 4x more space than most common sized SSDs
– Feature-packed: supports TRIM, S.M.A.R.T, and NCQ for the best drive space management, reporting, performance, and longevity
– Protective: SmartFlush™ protects data integrity during power outage or system failure
– Secure: supports AES 256-bit hardware-based encryption and TCG (Trusted Computing Group) Opal specification.

16TB

MEMORY MADE FOR YOUR MAC!

At OWC, we want your Mac to perform faster and last longer. That's why we engineer memory that is specifically tested and optimized for Mac.

WHY BUY OWC BRAND MEMORY?

- Revolutionary: meets rigorous manufacturer specifications
- Vetted: rigorously lab tested in house to ensure superior quality, compatibility and reliability
- Supported: backed by industry-leading lifetime advanced replacement. If you need your OWC memory replaced, we'll ship it to you the same day
- OWC MaxRAM Certified: max your Mac with up to DOUBLE the factory-supported limit

HELP... IF YOU NEED IT

An OWC Memory upgrade is easy to install yourself. Our library of free installation videos guide you through each step of the process. And our award-winning tech experts are standing by to help walk you through your upgrade via phone, chat, or email.

www.macsales.com/install

A PERFECT FIT

There's OWC memory for nearly every upgradeable Mac, from the PowerMac G4 to the latest Mac Pro. Find the memory that's precision crafted for your Mac:

- Mac Pro 2019
- Mac Pro 2013
- Mac Pro 2009 – 2012
- MacBook Pro
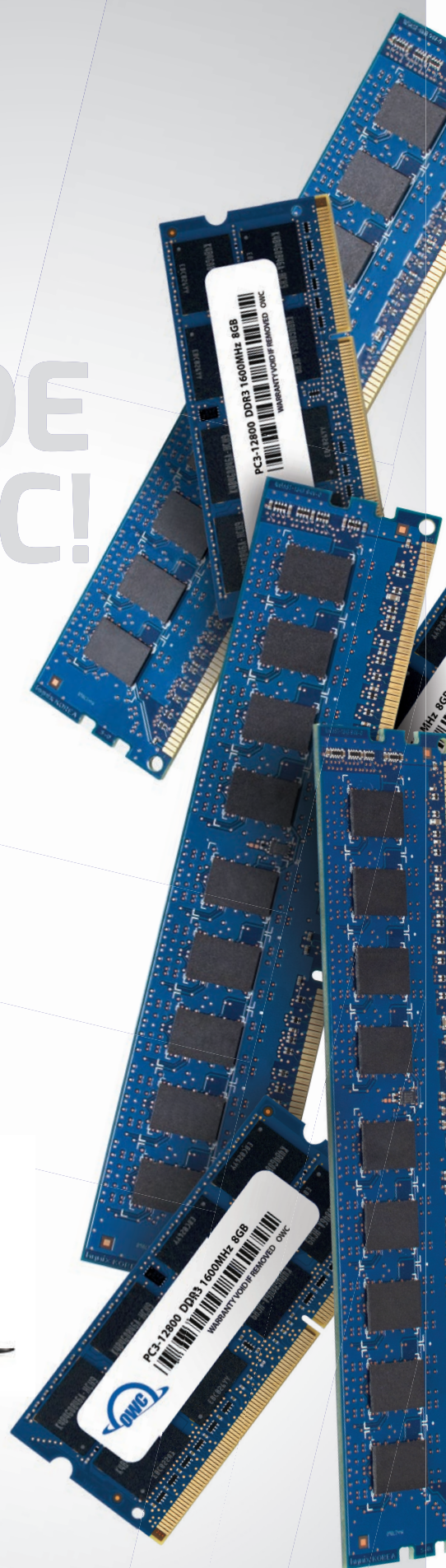- MacBook
- iMac
- iMac Pro
- Mac mini

Visit www.macsales.com/memory for more models and upgrade options!

OWC ONLINE MEMORY GUIDE

Finding the pefect memory upgrades for your Mac is easy.

www.macsales.com/memory

NEW! OWC CASE BYTE

**Snap-On Bus-Powered Portable Storage Solution for 13-inch MacBook Pro**

An OWC patented, exclusive way to increase the storage capabilities of your 2016 and later 13-inch MacBook Pro laptop computer. Simply snap the protective covers onto your machine and connect the built-in recessed USB-C cable for bus power.

- Unique: patented design snaps onto 2016 and later 13-inch MacBook Pro without tools
- Expansive: adds up to 8x higher capacity than factory
- Economical: costs far less than factory storage upgrade
- Simple: lightweight, bus-powered via integrated USB-C cable
- Silent and cool: elevates bottom of machine to keep it and your lap cool

500GB–1.0TB

SUPER-FAST STORAGE IN A SNAP

Elevate the way you work by upgrading your MacBook in under a minute. p. 46
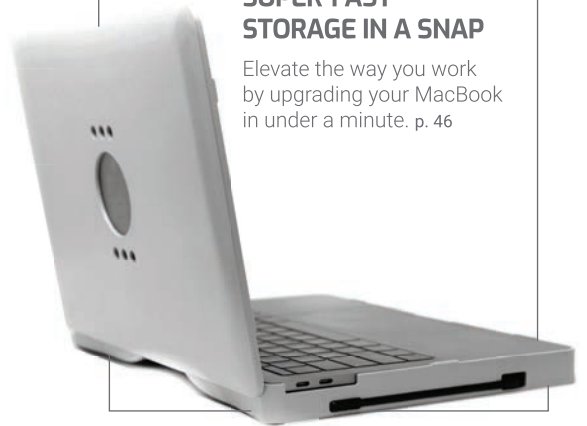
OWC 72-PIECE ADVANCED TOOLKIT

Whether you're the family repair person or a seasoned pro, this toolkit is built with OWC quality to help you easily tackle any project that comes your way.

- Organized: a rugged nylon case keeps everything together
- Versatile: be ready with a 58-in-1 screwdriver set
- Compatible: everything you need for Mac, PC, and small electronics

OWC 5-PIECE MINI TOOLKIT
Your quick kit for installing memory or drives.

- Streamlined: most common screwdrivers and other tools
- Versatile: tools for most laptop, desktop, and tower computers
- Mobile: pocket-sized for easy transport

NEWERTECH 14-PIECE PORTABLE TOOLKIT
Ideal for the technician on the go.

- Organized: tools pack neatly in a zippered nylon case
- Versatile: kit includes "spudgers" for hard-to-open, delicate devices
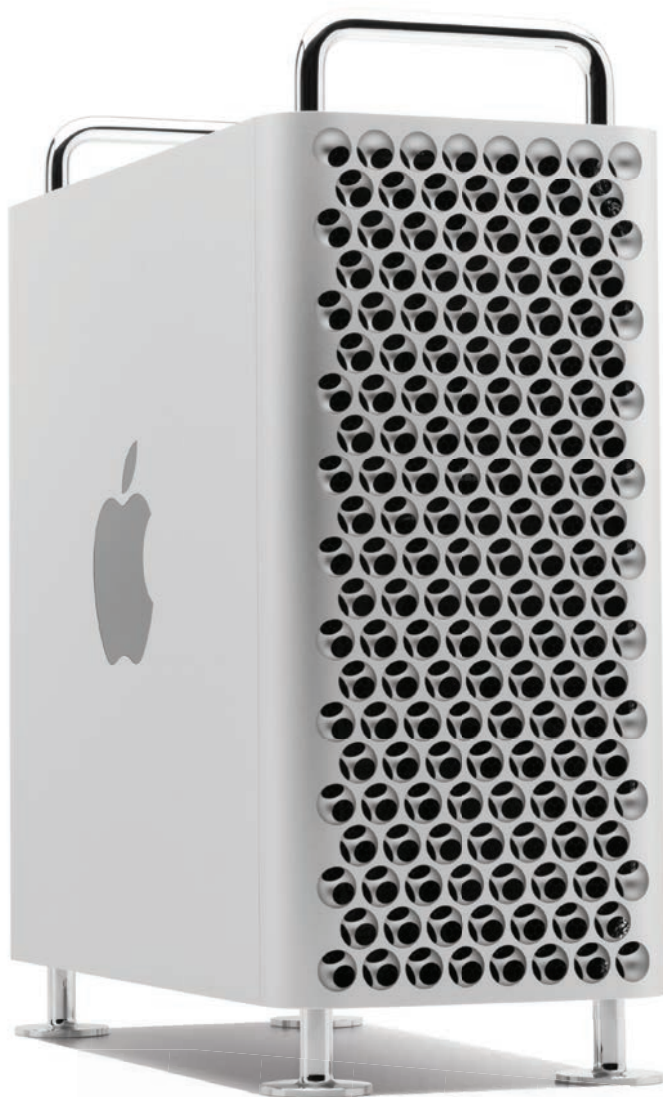- Mobile: pocket-sized for easy transport

OWC TOOLKIT FOR MACBOOK AIR AND MACBOOK PRO
Makes installation easy.

This kit includes one Torx T5 screwdriver and one 5-Point Torx Plus screwdriver – all the tools you need to install your OWC Aura Pro drive.

- Versatile: tools for MacBook Air 2010 and later and all MacBook Pro Retina display models

MAKE THE MOST OF YOUR AMAZING NEW MAC PRO

"If you picked up a Mac Pro and were looking to upgrade, OWC has a ton of options, and more importantly, you're going to save a ton of cash as opposed going directly through Apple."

— Jonathan Morrison

OWC MEMORY
Up to 1.5TB | Saving up to 69% vs factory options

With twelve available memory slots, you can transform your Mac Pro with up to 1.5TB of OWC Memory.

- Doubled: install in pairs for best performance
- Driven: high-performance multi-channel memory
- Protected: OWC Limited Lifetime Warranty

OWC ACCELSIOR 4M2

This NVMe SSD pushes the boundaries of SSD development with over 6,000MB/s of real-word speed.

- Slot-powered: no extra power cables needed
- Deployment ready: pre-configured solutions undergo performance verification
- Easy RAID: advanced SoftRAID engine simplifies setup

Up to 16.0TB
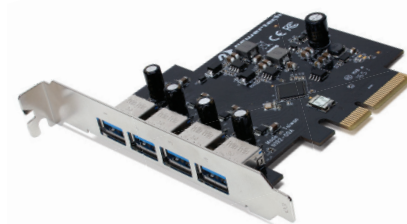
NEWERTECH MAXPOWER

High-bandwidth USB ports for Mac Pro and Windows with maximum wattage and data throughput, for a total of up to 5Gb/s and 15W.

- More options: add 4 USB ports to any Mac & PC with an open PCIe slot
- Powerful: each port delivers up to 10 watts
- Potent: use all your devices at max speed

Quality solutions, competitive prices, and expert support for over 30 years.

OWC ROVER PRO
Wheels Kit for 2019 Mac Pro

The patent-pending, mobility solution that enables your 2019 Mac Pro to go "wheels on/wheels off" without tools in under two minutes.

– Highly positional: 360-degree articulating wheels

– Smooth and silent: non-marking soft rubber tread wheels with low friction bearings

– Elegant: highly polished stainless-steel housings match the Mac Pro

– Protective: vibration absorbing silicone rubber pad preserves factory feet finish

– Secure: wheel stops prevent unintended movement

– Quality: built to last and backed with a Lifetime Warranty

JUST LIKE NEW, AGAIN AND AGAIN

Outfit your machine for the road ahead to discover a new world of potential that was always meant to be. OWC has the power to make your Mac Pro 2013 run like new again or take it beyond the factory limits for enhanced speed, storage and performance.

OWC AURA PRO X2 SSD
Up to 1565MB/s | Up to 2.0TB | macOS 10.13 & beyond

Aura Pro X2 combines speed, stamina, and efficiency to take your Mac Pro to the max performance level.

- Powerful: NVMe – PCIe 3.1 x4
- Driven: delivers high performance for high demands
- Protected: 5 Year OWC Limited Warranty

Most popular: 1.0TB

OWC MEMORY
Up to 128GB | For all models

With four available memory slots, you can transform your Mac Pro with up to 128GB of OWC Memory.

- Doubled: install in pairs for best performance
- Driven: high-performance multi-channel memory
- Protected: OWC Limited Lifetime Warranty

PROCESSOR UPGRADES
Up to 12-Core | For all models

Install up to 12-cores of pure processing performance, and make your Mac Pro do more with a processor upgrade from OWC.

- Extend: the life of your Mac Pro
- Doubled: upgrade to more cores to run applications faster and run more applications simultaneously.
- Install: using our step-by-step install video

6–12-core

EXTERNAL STORAGE & RAID

From a few extra terabytes to a fully loaded RAID setup, OWC has powerful, high-performance storage options for your Mac.

p. 10–13

SOFTRAID FOR SMOOTH RAIDING

SoftRAID far outperforms hardware-only solutions for the best safety and speed. Protects your data with redundant storage options and disk failure monitoring.

p. 16–17

YOUR MULTI-HIT WONDER

Roomy and durable, Mac Pro towers are nearly a blank slate for upgrades. With options for speed, storage, and performance, you can keep your machine running better than ever for years to come. Get the most out of your Mac investment with OWC.

OWC MERCURY SSD UPGRADES
Up to 106x Faster! | Up to 16.0TB | 2.5-inch SATA SSD

OWC Mercury 2.5-inch SSDs deliver higher performance for audio and video production, photography and more.

- – Focused: engineered for Mac, no extra software needed
- – Reliable: 7% overprovisioning for the long-term
- – Protected: up to 5 Year OWC Limited Warranty

OWC MEMORY
Up to 128GB | For all models

With four available memory slots, you can transform your Mac Pro with up to 128GB of OWC Memory.

- – Doubled: install in pairs for best performance
- – Driven: high-performance multi-channel memory
- – Protected: OWC Limited Lifetime Warranty

GFX POWER TO YOU
Up to 12.5x faster | 2010–2012

Get up to 12.5x faster-than-factory video card performance and support for macOS Mojave with your Mac Pro 2010–2012.

OWC ACCELSIOR S
Over 500MB/s | Up to 4.0TB | 2.5-inch 6G SATA SSD

PCIe upgrades... break into 6G! Add SSD performance that's 2x faster than the 3G SATA drive bays.

THE ALL-IN-WONDER ANSWER

For iMac models 2012–2019, OWC has SSD and HDD kits to fit all your computing needs. Choose from options that are ready for organizing and storing your media, crunching more data, and crushing your favorite games.

OWC SSD & HDD UPGRADE KITS
2.5-inch | 3.5-inch | SATA | SSD | HDD | 120GB–16TB!

1.0TB SSD UPGRADE KIT
for 2012–2019 iMac 21.5-inch models
Kit includes all the tools needed. Add a drive enclosure to easily migrate your data, or reuse the original drive.

2.0TB SSD UPGRADE KIT
for 2012–2019 iMac 21.5-inch models
Add an SSD to your hard drive equipped iMac to experience data transfer speeds over 500MB/s.

4.0TB HDD UPGRADE KIT
for 2012–2019 iMac 21.5-inch models
Kit includes all the tools needed, and a 4.0TB Seagate Laptop Series HDD.

2.0TB SSD UPGRADE KIT
for 2012–2019 iMac 27-inch models
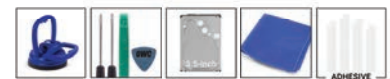Experience the extreme performance of an OWC SSD upgrade with this easy DIY SSD and hard drive replacement kit.

1.0TB SSD UPGRADE KIT
for 2012–2019 iMac 27-inch models
Add an SSD to your hard drive equipped iMac to experience faster booting and near instant application launches.

6.0TB HDD UPGRADE KIT
for 2012–2019 iMac 27-inch models
Kit includes thermal sensor, tools and 6.0TB Toshiba MG06ACA Series HDD.

READY TO
RUN... FASTER

Your iMac is a finely tuned machine, just waiting to break free. Unleash its full performance potential with OWC upgrades, precision calibrated to take it beyond the factory limits.

IMAC 21.5-INCH UPGRADES
Late 2009–Current models (4K models)[1]

OWC MERCURY SSD UPGRADES
Up to 106x Faster! | Up to 4.0TB | 2.5-inch SATA SSD

OWC Mercury 2.5-inch SSDs deliver higher performance audio and video production, photography and more.

- Focused: engineered for Mac, no extra software needed
- Reliable: 7% overprovisioning for the long-term
- Protected: up to 5 Year OWC Limited Warranty

Compare Mercury Extreme and Electra SSD's on p. 45

1. Mercury Extreme Pro 6G and Mercury Electra 6G SSDs can only be installed in iMac models that came with a factory-installed HDD or Fusion drive.

DIY WITH OWC

With a library of installation videos, you can count on OWC for step-by-step instructions for all your Mac upgrades. You can also call, chat, or email us to reach our award-winning support team.

Get started at www.macsales.com/DIY

OWC MEMORY
Up to 64GB | Up to 2x more memory vs factory options

Four available memory slots so you can transform your iMac with up to 64GB of OWC Memory.

- Doubled: install in pairs for best performance
- Driven: high-performance multi-channel memory
- Protected: OWC Limited Lifetime Warranty

DIY IMAC UPGRADE KITS

The only kits on the market with a thermal sensor to maintain proper system operation.

Add your own SSD or HDD

PARALLELS

Ideal for developers, web and graphic designers, and anyone needing to test apps across OS platforms without rebooting.

IMAC 27-INCH UPGRADES
Late 2009–Current models

OWC MEMORY LATE 2009–CURRENT IMAC MODELS
Up to 128GB | Up to 4x more memory vs factory options

With four available memory slots, you can transform your iMac with up to 64GB of OWC Memory.

- Doubled: install in pairs for best performance
- Driven: high-performance multi-channel memory
- Protected: OWC Limited Lifetime Warranty

DIY IMAC UPGRADE KITS

The only kits on the market with a thermal sensor to maintain proper system operation.

Add your own SSD or HDD

PARALLELS

Ideal for developers, web and graphic designers, and anyone needing to test apps across OS platforms without rebooting.

OWC MERCURY SSD UPGRADES
Up to 106x Faster! | Up to 4.0TB | 2.5-inch SATA SSD

OWC Mercury 2.5-inch SSDs deliver higher performance audio and video production, photography and more.

- Focused: engineered for Mac, no extra software needed
- Reliable: 7% overprovisioning for the long-term
- Protected: up to 5 Year OWC Limited Warranty

THE BEST GETS EVEN BETTER

IMAC 27-INCH UPGRADES
2017–Current iMac Pro models

iMac is the fantastic all-in-one machine that's built to take your imagination everywhere. Evolve your iMac with OWC upgrades for a fraction of the cost of buying a new machine to keep it running like new for years to come.

OWC MEMORY 2017–CURRENT IMAC PRO MODELS
Save up to 52% vs. highest Apple factory option

Upgrading the memory on an iMac Pro up to 256GB can be a complex procedure. To make it easy, have an OWC certified technician install it for you!

– Doubled: install in pairs for best performance

– Driven: high-performance multi-channel memory

– Protected: OWC Limited Lifetime Warranty

Memory + Pro Install

OWC THUNDERBOLT 3 DOCK
14 Ports — Mac & Windows

Convenient rear and front-facing ports make it easy to connect any device, interface, or SD card.

OWC THUNDERBOLT 3 MINI DOCK
5 Ports | Bus-Powered | Mac and Windows

On-the-go or on a desktop, the OWC Thunderbolt 3 mini dock is the ultimate all-in-one portable dock for port-limited Thunderbolt 3 Macs and PCs. It is smartphone-sized with no AC adapter needed, adding two displays, two USB storage and desktop accessory devices, and Gigabit Ethernet networking to workflows via one integrated cable.

DIY IMAC UPGRADE KITS

The only kits on the market with a thermal sensor to maintain proper system operation.

Add your own SSD or HDD

ACRONIS TRUE IMAGE 2021

A comprehensive cyber protection solution that obliterates hackers and malware while maintain tip-top performance speed.

PRO POWER
THAT LASTS & LASTS

Rediscover what your MacBook Pro was meant to be with
OWC upgrades for models from early 2006–late 2016.

MACBOOK PRO UPGRADES
2012–2016 models with Retina display

OWC AURA PRO X2 SSD UPGRADES
Up to 1565MB/s | Up to 2.0TB | macOS 10.13 & beyond

Combines speed, stamina, and efficiency to take your Mac
Pro to the max performance level.

— Powerful: NVMe – PCIe 3.1 x4

— Driven: delivers high-performance for high demands

— Protected: 5 Year OWC Limited Warranty

Most popular: 1.0TB

OWC MY UPGRADES

Turn your Mac into a powerhouse. Find upgrades for your Mac model using our 3-step process.

www.macsales.com/upgrades

OWC MEMORY EARLY 2006–LATE 2016 NON-RETINA MODELS
Up to 16GB | Up to 2x more memory vs factory options

With two available memory slots, you can transform your
MacBook Pro by adding up to 16GB of OWC Memory.

— Doubled: install in pairs for best performance

— Driven: high-performance multi-channel memory

— Protected: OWC Limited Lifetime Warranty

*"I started up iPhoto, with all those pictures to load in ...
what always took time, was now almost instantaneous."*

— Marcel Dufresne, MaUsE DoubleClick

OWC MERCURY SSD UPGRADES

Up to 106x Faster! | Up to 4.0TB | 2.5-inch SATA SSD

OWC Mercury 2.5-inch SSDs deliver higher performance for audio and video production, photography and more.

– Focused: engineered for Mac, no extra software needed

– Reliable: 7% overprovisioning for the long-term

– Protected: up to 5 Year OWC Limited Warranty

Compare Mercury Extreme and Electra SSD's on p. 45

DIY WITH OWC

OWC offers a library of installation videos with step-by-step instructions for all your Mac upgrades. You can also call, chat, or email us to reach our award-winning support team.

Get started at www.macsales.com/DIY

NEWERTECH NUPOWER BATTERY

Up to 23% more capacity than Apple factory batteries

NuPower batteries perfectly complement the fit and finish of your early 2006–early 2015 MacBook Pro.

– Safe: 100% Mercury free

– Pristine: made from top Lithium-Ion cells

– Protected: 1 Year NewerTech Limited Warranty

OWC DATA DOUBLER KIT

Complete: Drive, bracket, hardware, tools, instructions

Everything you need to replace your optical drive with a second drive or SSD!

– Roomy: makes space for up to 2.0TB storage

– Quick: speed up your boot and app load times

– Flexible: configure your drive however you want

THE BEST OF LIGHT AND POWERFUL

Always at the ready, the MacBook Air was designed to go everywhere. OWC upgrades can evolve it even further by adding a longer battery life, more storage and a performance boost that might just knock your socks off.

MACBOOK AIR UPGRADES
Late 2008–2017 models

OWC AURA PRO X2 SSD UPGRADES
Up to 1565MB/s | Up to 2.0TB | macOS 10.13 & beyond

Combines speed, stamina, and efficiency to take your Mac Pro to the max performance level.

– Powerful: NVMe – PCIe 3.1 x4
– Driven: delivers high-performance for high demands
– Protected: 5 Year OWC Limited Warranty

Most popular: 1.0TB

OWC ENVOY PRO

Bring extra performance power wherever you go with the Envoy Pro portable SSD enclosure.

– Sleek: award-winning design matches your Mac notebook
– Mobile: bus powered and palm-sized
– Flexible: add your own SSD or buy pre-loaded

NEWERTECH NUPOWER BATTERY
Up to 23% more capacity than Apple factory batteries

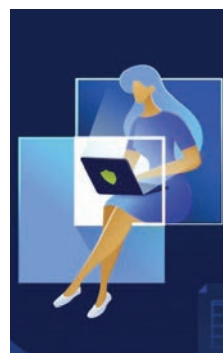NuPower batteries perfectly complement the fit and finish of your late 2008–2017 models.

– Safe: 100% Mercury free
– Pristine: made from top Lithium-Ion cells
– Protected: 1 Year NewerTech Limited Warranty

ACRONIS TRUE IMAGE 2021

Acronis True Image is a powerful backup and antimalware solution that protects you from today's threats – from accidents to failures to attacks.

SMALL FOORPRINT, EXPANSIVE PERFORMANCE

Mac mini packs a huge amount of computing power into a space that's wonderfully, beautifully small. And just a few upgrades from OWC exponentially expand its power, performance, and capacity.

MAC MINI UPGRADES
Late 2006–Late 2018

OWC MEMORY LATE 2006-LATE 2018
Up to 64GB | OWC Limited Lifetime Warranty

With two available memory slots, you can transform your Mac mini by adding up to 64GB of OWC Memory.

- Doubled: install in pairs for best performance
- Driven: high-performance multi-channel memory
- Protected: OWC Limited Lifetime Warranty

OWC AURA PRO X2 SSD UPGRADES
Up to 1565MB/s | Up to 2.0TB | macOS 10.13 & beyond

Combines speed, stamina, and efficiency to take your mini to the max level of performance.

- Powerful: NVMe PCIe 3.1 x4
- Driven: delivers high-performance for high demands
- Protected: 5 Year OWC Limited Warranty

Most popular: 1.0TB

OWC MINISTACK
Stacks perfectly with Mac mini!

Up to 16TB

OWC MERCURY SSD UPGRADES
Up to 106x Faster! | Up to 4.0TB | 2.5-inch SATA SSD

OWC Mercury 2.5-inch SSDs deliver higher performance for audio and video production, photography and more.

- Focused: engineered for Mac, no extra software needed
- Reliable: 7% overprovisioning for the long-term
- Protected: up to 5 Year OWC Limited Warranty

STEP UP YOUR GAMING

Leave your gaming competition in the dust with blazing fast SSDs. Whether you're playing from home or on the move, OWC has the right solutions to help you game faster, longer, and more securely.

★ ★ ★ ★ ★

ITS AWESOME
It was super easy to install and get everything running smooth, would recommend 10/10 if you're running out of space

NEW! OWC ENVOY PRO ELECTRON
Put massive-sized personal and work files in the palm of your hand while pushing USB-C's bandwidth to the max.

480GB-2.0TB p. 7

OWC INTERNAL STORAGE DRIVE UPGRADE BUNDLES
Keep your PlayStation 4 looking stealthy and clean. Swap out the internal drive for a 4x capacity boost, then use the original drive as a high performance external.

up to 2.0TB HDD

OWC EXTERNAL STORAGE DRIVE UPGRADE BUNDLES
Level up your storage capacity instantly. Add more capacity with a plug and play external drive upgrade for your PlayStation 4 or XBOX ONE.

up to 2.0TB HDD or 4.0TB SSD

OWC MERCURY ON-THE-GO PRO
Take your bandwidth with you on the go with this sleek, pocket-sized mobile powerhouse for your XBOX ONE.
p. 24

AKITIO NODE TITAN
External graphics processing unit that transforms your computer into a high-performance workstation.
p. 38

HDMI ADAPTERS
Get the bandwidth you need to hit the display resolutions your game demands. Strong connections to enhance performance.

DISPLAY PORT ADAPTERS
Eliminate interruptions when you're in the zone. Get seamless, high resolution streaming on multiple screens for a fully immersive gaming experience.

Quality solutions, competitive prices, and expert support for over 30 years.

BE READY FOR EVERYTHING

Ensure your PC is ready for the new year. Play more, create more, and share more with innovative solutions... only from OWC.

NEW! OWC THUNDERBOLT DOCK
11 Ports | Up to 90W charging power
All the Thunderbolt and USB you've wanted plus audio, Ethernet, and card reader
p. 28

USB-C TRAVEL DOCK
5 Ports | Up to 100W pass-through power
Simplify your mobile life.
p. 31

OWC MERCURY ELITE PRO DOCK
Up to 773MB/s | Up to 36TB | 7 Ports
The do-it-all tool that will organize your digital life
p. 21

NEW! OWC THUNDERBOLT HUB
5 Ports | Up to 60W charging power
Connect more storage, displays, accessories...you name it, you can use it
p. 29

MERCURY ELITE PRO MINI
Up to 540MB/s | Up to 4.0TB
A portable powerhouse of data transfer and storage.

500GB—4.0TB p. 22

ENVOY PRO EX WITH USB-C
The fastest, most rugged portable USB-C SSD ever built. Dust and waterproof!
Take important files wherever you roam.

240GB—4.0TB p. 8

MERCURY EXTREME PRO 6G
Over 500MB/s Sustained | Up to 4.0TB | 6G
Add phenomenal performance in a snap.
p. 45

AURA P12 PRO M.2 NVME SSD
Up to 3200MB/s | Up to 2.0TB | PCIe 3.1
Raise your game.
p. 44

OWC DDR4 RAM FOR PC
Upgrade your memory for less.

8GB—128GB

SUSTAINABILITY IS GOOD BUSINESS

As we grow, so does our commitment to sustainability. We're proud to be a zero-emissions company, and always working towards minimizing our environmental impact. In 2015, we reached our goal of generating more power than we consume. Sustainability can also be economical. We provide customers with products that allow them to maximize the longevity of their technology and we extend this approach to our business operations.

We have worked tirelessly to build sustainable practices into all levels of our company. We currently recycle 97 percent of our solid waste materials. And our efforts haven't gone unnoticed: We're Energy Star certified, and in 2010, we received the LEED® Platinum Certification by the Green Building Certification Institute.

SUSTAINABILITY AT-A-GLANCE

- Nearly zero waste with widespread recycling programs
- Eco-friendly, recyclable packaging
- First U.S. technology manufacturer with a fully wind powered on-site turbine
- A LEED Platinum and Energy Star certified building
- Recycle 97% of solid waste materials
- One of the largest privately-owned solar arrays in Illinois

WIND POWER

Clean, limitless, efficient. OWC's wind turbine is the foundation of our environmentally responsible alternative energy efforts. We kicked off our on-site energy program with the installation of a Vestas V39-500kW wind turbine in 2009 at company headquarters in Woodstock, IL. OWC quickly became the first manufacturer/distributor in the U.S. to become 100% on-site wind powered. The wind turbine alone in Woodstock generates more power than is consumed at this location.
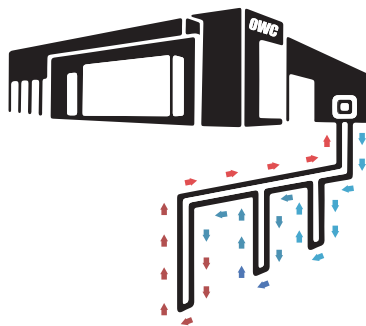
GEOTHERMAL HEATING AND COOLING

Corporate energy heating and cooling systems pose a large pollution risk for the communities in which they operate, but we aren't going down like that. That's why OWC headquarters in Woodstock utilize a geothermal heating and cooling system. Unlike standard operations, we use an environmentally safe, biodegradable liquid in a closed loop — so there is never any risk of pollution.
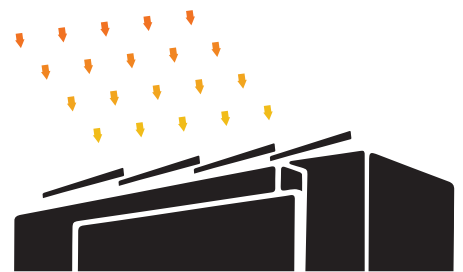
SOLAR POWER

Go ahead...call us obsessive. Not content with harnessing the power of the wind and earth, OWC adopted solar power as an energy source at our two largest locations in Woodstock, Ill and Austin, TX. In 2015, we installed and activated a solar power system in Woodstock to augment our existing wind power turbines. The solar system consists of 770 American-made Sun Power solar panels installed on the roof of the building, making it one of the largest privately-owned solar arrays in Illinois.

www.macsales.com/thinkgreen

ENVOY PRO ELEKTRON

THE FASTEST, TOUGHEST, MINI-SIZED PORTABLE SSD IN THE GALAXY

Whether you're in studio or working remotely, the Envoy Pro Elektron lets you record from anywhere with confidence. It pushes the bandwidth of USB technology to the max, giving you zero latency in recording and playback.

Transfer tracks in seconds or take your sessions with you anywhere you go. Built for the road, the OWC Elektron is waterproof, dustproof and crushproof. Creativity without limits... only from OWC.

SUPER-FAST FOR ALL
With up to 2x faster performance than other mini-sized portable SSDs[1], you'll feel the 1011MB/s real-world speed every time you save, edit, or backup files

UNIVERSALLY USB COMPATIBLE
Plug and play with Macs, PCs, iPad Pros, Chromebooks, and Android tablets from the last decade, current models, and well into the future

POCKET-SIZED
The go anywhere storage solution that's half the size of a smartphone

BUILT LIKE A TANK
Crushproof, dustproof and waterproof IP67 rated[2]

BOOTABLE
Startup and launch apps in mere seconds

1. Sequential read/write (max) performance based on testing an OWC Aura Pro P13 equipped Envoy Pro Elektron connected to an iMac Pro Late 2017 (iMacPro1,1) with 32GB RAM and 3.2GHz processor running AJA System Test (4K-Full resolution, 64GB file size, 10bit RGB codec, single file test) and Diglloyd DiskTester (fill-volume test).
2. Waterproof for up to 30 minutes at < 1 meter.