

My Dream Computer

What I should have put in my current PC.



Jayce Mangum - CSNT116 - 10/30/2024

Purpose

- Video Editing
 - 8K @ 120fps footage
 - CGI/Special Effects processing
- Rendering

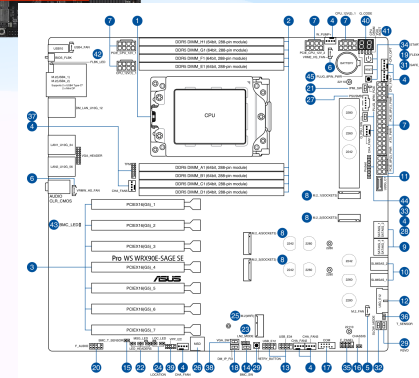
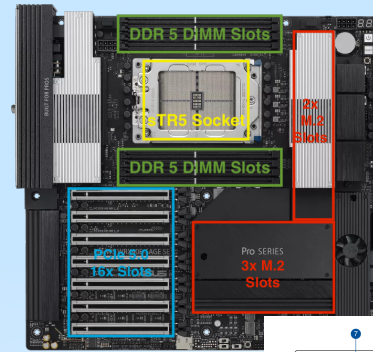


The purpose of this machine is going to be for heavy video editing, including computer-generated imagery and special effects
Needs to be able to handle 8K footage at 120 frames per second without long rendering times

The Motherboard

ASUS Pro WS WRX90E-SAGE SE

- ATX
- AMD sTR5 Socket
- AMD WRX90 Chipset
- DDR5 8 Channels (up to 2TB)
- PCIe 5.0 x16 slots
- M.2/SATA drives
 - Supports Raid 0/1/5/10
- New Egg: \$1,300



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Sources: https://www.asus.com/us/motherboards-components/motherboards/workstation/pro-ws-wrx90e-sage-se/helpdesk_manual?model2Name=Pro-WS-WRX90E-SAGE-SE
https://www.asus.com/us/motherboards-components/motherboards/workstation/pro-ws-wrx90e-sage-se/helpdesk_manual?model2Name=Pro-WS-WRX90E-SAGE-SE

The ASUS PRO WS WRX90E-SAGE SE is:

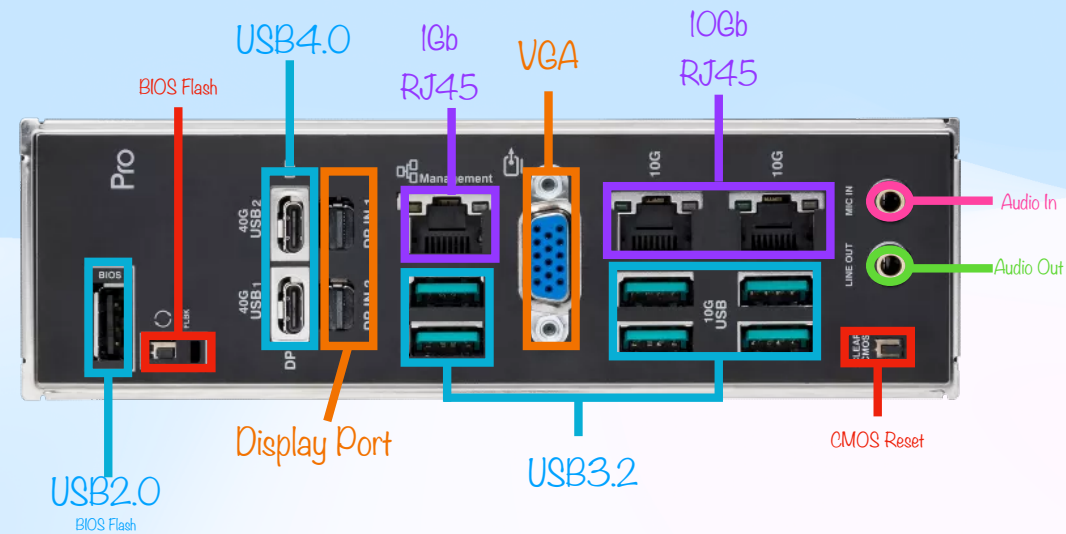
- an ATX board
- CPU Socket is an sTR5
- Has the AMD WRX90 Chipset
- 8x DDR5 slots for up to 2TB of RAM
- 7x PCI express 5.0 16 slots
- 5x M.2 SSD slots, 6 SATA ports
 - Supports Raid 0, 2, 5, 10
- Costs \$1,300 on New Egg

Sources:

https://www.asus.com/us/motherboards-components/motherboards/workstation/pro-ws-wrx90e-sage-se/helpdesk_manual?model2Name=Pro-WS-WRX90E-SAGE-SE
https://www.asus.com/us/motherboards-components/motherboards/workstation/pro-ws-wrx90e-sage-se/helpdesk_manual?model2Name=Pro-WS-WRX90E-SAGE-SE

ASUS Pro WS WRX90E-SAGE SE

I/O ports



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Sources: <https://www.asus.com/us/motherboards-components/motherboards/workstation/pro-ws-wrx90e-sage-se/>

Inputs and outputs

- 1 USB 2.0 port
- 2 USB 4.0 type-c ports
- 6 USB 3.2 type-a ports
- 1 1gigabyte RJ45 port
- 2 10gigabyte RJ45 ports
- Audio In/Out
- CMOS Reset is located here

Sources:

<https://www.asus.com/us/motherboards-components/motherboards/workstation/pro-ws-wrx90e-sage-se/>

The Case

Corsair 6500X Mid-Tower

- ATX Form Factor
- Airflow
- Top I/O
 - USB 3.2/USB-C
 - 3.5mm Audio In/Out
- New Egg: \$200



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Sources: <https://www.newegg.com/black-obsidian-black-aluminum-corsair-6500x-mid-tower/p/N82E16811139219?Item=N82E16811139219>

For the case, the Corsair 6500X Mid-Tower

- It fits the full ATX board form factor
- Plenty of space for airflow and cable management, so this machine will get hot
- Top I/O
 - 4 USB 3.2
 - 1 USB type-C
 - 1 3.5mm Audio In/Out jack
- It costs \$200 on NewEgg

Sources:

<https://www.newegg.com/black-obsidian-black-aluminum-corsair-6500x-mid-tower/p/N82E16811139219?Item=N82E16811139219>

The Central Processing Unit AMD Ryzen Threadripper Pro

- 7995WK
 - 96-cores
 - 2.5Ghz Base Clock
 - 5.1GHz Clock Boost
- Perfect for huge projects
- NewEgg: \$9,999

Name	Graphics Model	# of CPU Cores	# of Threads	Max. Boost Clock	Base Clock	Thermal Solution (PIB)	Default TDP
AMD Ryzen™ Threadripper™ PRO 7995WX	Discrete Graphics Card Required	96	192	Up to 5.1 GHz	2.5 GHz	Not Included	350W
AMD Ryzen™ Threadripper™ PRO 7985WX	Discrete Graphics Card Required	64	128	Up to 5.1 GHz	3.2 GHz	Not Included	350W
AMD Ryzen™ Threadripper™ PRO 7975WX	Discrete Graphics Card Required	32	64	Up to 5.3 GHz	4 GHz	Not Included	350W
AMD Ryzen™ Threadripper™ PRO 7965WX	Discrete Graphics Card Required	24	48	Up to 5.3 GHz	4.2 GHz	Not Included	350W
AMD Ryzen™ Threadripper™ PRO 7955WX	Discrete Graphics Card Required	16	32	Up to 5.3 GHz	4.5 GHz	Not Included	350W
AMD Ryzen™ Threadripper™ PRO 7945WX	Discrete Graphics Card Required	12	24	Up to 5.3 GHz	4.7 GHz	Not Included	350W

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Table Source: <https://www.amd.com/en/products/processors/workstations/ryzen-threadripper.html#top>

The AMD Ryzen Threadripper Pro 7995WK would be my choice:

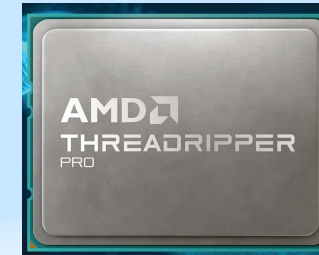
- With 96-cores there shouldn't be any hiccups with rendering huge 8K video projects and large special effects files
- Turbo boost up to 5.1GHz, which will be great for video and effects processing
- It costs about \$10K on NewEgg

Sources: <https://www.amd.com/content/dam/amd/en/documents/products/processors/ryzen-threadripper/threadripper-pro-design-mfg-brief.pdf>

AMD Ryzen Threadripper Pro 7995WK

More Specs

- DDR5-5600
 - 512GB (8 channels of 64GB DIMMs)
- PCIe 5.0 128 lanes
- 480MB Cache
- 5200 MT/s
- 192 threads
- sTR5 socket



Run with respective system specifications:

	Intel® Xeon® W-3400	AMD Ryzen™ Threadripper™ PRO 7900WX
SKUs tested	W9-3495X / W7-3465X	7945WX / 7955WX / 7965WX 7975WX / 7985WX / 7995WX
Memory DIMMs	DDR5-4800 with ECC	DDR5-5600 with ECC
Memory capacity (channels x rank x DIMM capacity)	128 GB (8ch x 1r x 16 GB)	512 GB (8ch x 1r x 64 GB)
Storage	(4) PCIe NVMe M.2 SSD (1 TB)	(1) PCIe 4.0 NVMe M.2 SSD (1 TB)
Operating system	Microsoft Windows 10 Professional	
Chassis volume (liters)	30.8	65.0
Cooling	Conventional air-cooling	

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Table/Image Source: <https://www.amd.com/content/dam/amd/en/documents/products/processors/ryzen-threadripper/threadripper-pro-design-brief.pdf>

Supports

- Up to 512GB on 8 channels of 64GB DDR5 5600Mhz of RAM
- PCI Express 5.0
- Has
 - 480MB total cache
 - RAM speeds up to 5200 mega transfers per second
 - 192 threads
- It uses the proprietary AMD sTR5 socket

Sources: <https://www.techpowerup.com/327294/single-player-games-lose-to-pvp-in-younger-audiences-despite-recent-hits>, <https://www.amd.com/content/dam/amd/en/documents/products/processors/ryzen-threadripper/threadripper-pro-dme-brief.pdf>

AMD vs. Intel

Which is better for Video Editing?

- Intel
 - Integrated Graphics
 - Useful for light editing
 - High clock speeds
 - Better for single-core tasks
- AMD
 - Intense Video Editing
 - Better Performance
 - More cores for rendering
 - Most don't have integrated graphics
 - Better Value



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Information From: <https://medium.com/@LarryFogarty/intel-vs-amd-processor-for-video-editing-ultimate-showdown-dfec545659f3>

Looking at an article from [medium.com](https://medium.com/@LarryFogarty/intel-vs-amd-processor-for-video-editing-ultimate-showdown-dfec545659f3) by Larry Fogarty:

- Intel would be good for basic casual video editing for shorter projects
 - Integrated graphics would be good for small and light editing projects
 - They have high clock speeds, quicker at processing single-core tasks using their proprietary “Quick-Sync” technology
 - Running video editing software, there won’t be too many issues as long as there aren’t tons of channels
- AMD would be good for large projects that have multiple channels with lots of special effects
 - Better performance during the rendering process using multiple cores
 - The downside is that most AMD CPUs don’t have integrated graphics and are more expensive for an APU
 - Cheaper with more cores = better value

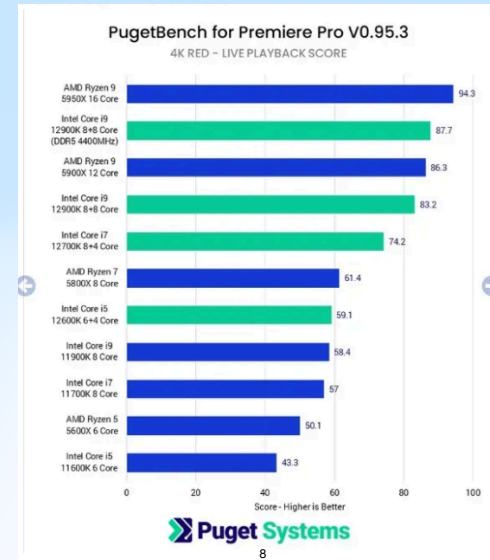
Sources:

<https://medium.com/@LarryFogarty/intel-vs-amd-processor-for-video-editing-ultimate-showdown-dfec545659f3>

<https://www.google.com/url?sa=i&url=https%3A%2F%2Fabachy.com%2Fnews%2Fopinion-nanometer-process-marketing-wars-amd-vs-intel&psig=AOvVaw0lxo1H8AdAi47JL7u29rVK&ust=1729905123625000&source=images&cd=vfe&opi=89978449&ved=0CBQQjRxqFwoTCLjsiPmsqIkDFQAAAAAdAAAAABAE>

Benchmarks between AMD & Intel CPUs

For Adobe Premiere Pro



Benchmark Source: <https://micro.medium.com/v2/format-wsbo/Y4CahDwFAOLyQW>

These are benchmarks are for a popular video editing software, Adobe Premiere Pro, when processing 4K RED camera footage.

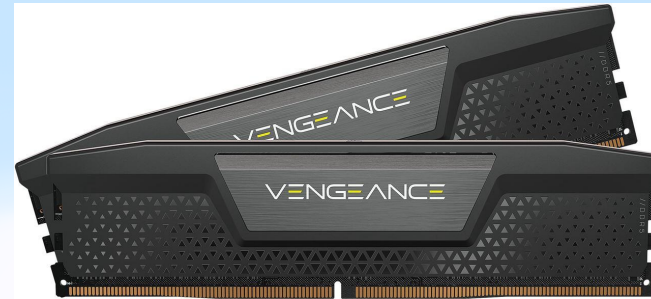
- RED is a high-end professional video camera manufacture
- AMD scores higher in most cases when using RED footage
- Looking at the top end Ryzen 9 Zen 3 5950X 16-core CPU, it has a 6.6 point lead over the top-end Intel Core i9 12th Generation 12900K 16-core CPU
- I'll be going with an AMD processor for this build
 - It will be good for rendering special effects complex projects with lots of channels and media sources

Red Camera Image Source: https://www.google.com/search?sca_esv=e91d65085a9a29e8&q=red+camera&udm=2&fbs=AEQNm0A-5VTqs5rweptgTqb6m-Eb3TvVcv4I7eCyod9RtZW98xhblUVZPzVv1Bs6vKE1-BNpBZmVjXeMAEihQ07BrNjgBSVvptKTZ7uCSG2sfXEVsGKrhcWP4sObo66effMvphraWqdYJUcDf3Tvbeum96jL-99eQ8luThaqZpMfgFCfZHzxNWVELfpDyyiNO3kvEzYpeGillj0NgZ3gLHGHG3z82CX2eYg&sa=X&sqi=2&ved=2ahUKEwixyMLfu6iAxUPCTQIHtunCoMQtKgLegQIHHRAB&biw=948&bih=1063&dpr=2#vhid=9P52zYwDHJQTPM&vssid=mosaic

Memory

CORSAIR Vengeance CMK64GX5M2B5600C40

- DDR5-5600
 - 288-Pin
- 32GB DIMMs
 - *8 = 256GB
- Video editing and rendering eats resources
- New Egg: \$170 per pack
 - 4x 2-packs (\$680)



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Image Sources: <https://www.newegg.com/corsair-64gb-ddr5-5600/p/N82E16820236848?Item=N82E16820236848>

Choosing the CORSAIR Vengeance mostly due to brand loyalty, and I use their DDR4 currently:

- DDR5 5600MHz
- 8 32GB DIMMs for a total of 256GB - mostly for having multiple resource-intensive applications and projects. Sometimes, you have to have Adobe Premiere and After Effects at the same time to make live edits between the two
- 4 2 packs costs \$680 on NewEgg

<https://www.newegg.com/corsair-64gb-ddr5-5600/p/N82E16820236848?Item=N82E16820236848>

The Graphics Processing Unit

NVIDIA GeForce RTX 4090

- Supports
 - 4x 8K Monitors
 - 1x HDMI 2.1
 - 3x Display Port 1.4a
- 24GB RAM
- 3 Cooling Fans
- New Egg: \$1,978



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Sources: https://www.newegg.com/msi-rtx-4090-gaming-x-trio-24g-nvidia-geforce-rtx-4090-24gb-gddr6x/p/14-137-761?Item=14-137-761&cm_sp=product--from-price-options

The GPU would be the NVIDIA GeForce RTX 4090

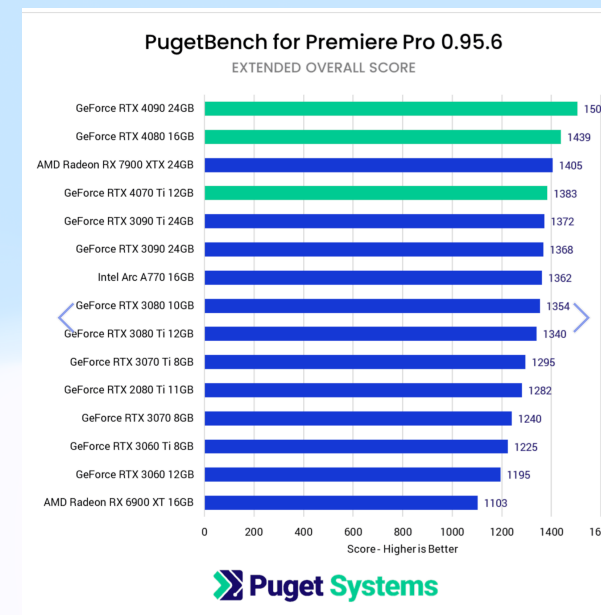
- supports up to 4 8K monitors
 - 1 HDMI 2.1 (8K standard)
 - 3 Display Ports
- 24 GB of RAM
- 3 Cooling Fans
- \$1,978 on NewEgg

Sources: https://www.newegg.com/msi-rtx-4090-gaming-x-trio-24g-nvidia-geforce-rtx-4090-24gb-gddr6x/p/14-137-761?Item=14-137-761&cm_sp=product--from-price-options

Information Source: <https://www.techradar.com/pro/best-graphics-cards-for-video-editing-of-year>

Why NVIDIA? And not AMD Radeon

- CUDA cores
 - 3D Rendering Tasks
 - 16,384 cores for processing images in parallel
 - ~8,704 needed for content creation
- AMD Radeon 7900XTX has 6,144 “stream cores”
- Stream core = CUDA core



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Sources: <https://www.pugetsystems.com/fabs/articles/nvidia-rtx-4070-and-4060-8-8gb-content-creation-review/>

- NVIDIA has better technology for processing images at a faster rate and is faster at processing 3D rendering tasks, which is important for heavy video projects
- 16,400 CUDA cores to process images in parallel, which you need about 8,700 for content creation
- AMD doesn't use CUDA cores; they use stream cores which, in comparison, it only has 6,114 stream cores (however, for basic video editing, it should do just fine)
- Even the RTX4040 with 16GB outperformed the Radeon 7900XTX

Sources:

CUDA cores: <https://acecloud.ai/resources/blog/nvidia-cuda-cores-explained/>

Other Source: <https://www.comprint.co.in/blog/comparing-amd-vs-nvidia-which-graphic-card-brand-is-right-for-you#:~:text=Content%20Creation,%2C%20Blender%2C%20and%20DaVinci%20Resolve.>

Benchmarks: <https://www.pugetsystems.com/solutions/video-editing-workstations/adobe-premiere-pro/hardware-recommendations/>

AMD Info: <https://www.amd.com/en/products/graphics/desktops/radeon/7000-series/amd-radeon-rx-7900xtx.html>

Storage

- Samsung 990 PRO 2TB M.2 SSD
 - OS/Apps
 - New Egg: \$170
- Western Digital Red Pro 24TB HDD
 - Storage
 - Raid 0
 - New Egg: \$570



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Sources: <https://www.newegg.com/red-pro-wd240kfgx-24tb/p/N82E16822234562>
<https://www.newegg.com/samsung-990-pro-nvme-2-0/p/N82E16820147861?Item=N82E16820147861>

For storage:

- 1 Samsung 990 PRO 2TB M.2 SSD for the OS and to install apps so they load fast
 - \$170 on Newegg
- 2 Western Digital Red Pro 24TB for data storage in Raid 0 for 48TBs, as 8K video footage is quite large. For 1 minute, it's 20GB of storage, and 1 hour of RAW Red camera footage is 121.5 GB - it adds up quickly.
 - New Egg: \$570 per drive

Sources:

<https://www.newegg.com/red-pro-wd240kfgx-24tb/p/N82E16822234562>

<https://www.newegg.com/samsung-2tb-990-pro-nvme-2-0/p/N82E16820147861?Item=N82E16820147861>

CPU Cooler

Corsair iCue H150i RGB ELITE

- Liquid Cooler
 - CPU will get hot
- 3 Radiator Fans
- Show CPU Temp via Software
- Corsair: \$150



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Image Sources: <https://www.corsair.com/us/en/p/cpus-coolers/cw-9000090-ww/cue-h150i-rgb-elite-liquid-cpu-cooler-cw-9000090-ww>

- The Threadripper will get hot so liquid cooling is going to be a great option.
 - This one by Corsair has 3 radiator fans and will also tell me the temperature of the CPU via the free iCue software and will also alert me if it gets too hot
 - This is also one of the only liquid coolers that supports the CPU socket based on AMD's website.
 - \$150 directly from Corsair's website

Compatibility: <https://www.amd.com/en/products/processors/ecosystem/threadripper-cooling-solutions.html>

Power Usage

2000W PSU

Hardware	Max. Wattage (W)
ASUS Pro WS WRX90E-SAGE SE	288
AMD Ryzen Threadripper PRO 7995WX	350
MSI GeForce TRX 4090 24GB	1,000
Other Internals (~) [HDDs, SSDs, RAM, CPU Cooler]	268
Total Wattage (W)	1,906

Data is based on the Manufacturer's User Manuals or the Specs tables on NewEgg's website

The total wattage of this system is going to be approximately 1,906W at full usage, so it will need a 2,000W PSU
The GPU alone uses about 1,000W.

Sources:

- https://www.asus.com/us/motherboards-components/motherboards/workstation/pro-ws-wrx90e-sage-se/helpdesk_manual?model2Name=Pro-WS-WRX90E-SAGE-SE
- <https://www.newegg.com/corsair-64gb-ddr5-5600/p/N82E16820236848?Item=N82E16820236848>
- https://www.newegg.com/msi-rtx-4090-gaming-x-trio-24g-nvidia-geforce-rtx-4090-24gb-gddr6x/p/14-137-761?Item=14-137-761&cm_sp=product--from-price-options
- <https://www.newegg.com/samsung-2tb-990-pro-nvme-2-0/p/N82E16820147861?Item=N82E16820147861>
- <https://www.newegg.com/red-pro-wd240kfgx-24tb/p/N82E16822234562>
- <https://www.newegg.com/amd-threadripper-pro-7995wx-350w-sp6-ryzen-threadripper-7000-series/p/N82E16819113810?Item=N82E16819113810>

Power Supply

FPS Cannon Pro 2000W

- Full Modular
 - Use the cables I need
- ATX
- 2000W
- NewEgg: \$500



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Source: <https://www.newegg.com/fsp-cannon-pro-2000-w/p/1HU-0095-000U9>

The FPS Cannon Pro 2000W will do the job.

- ATX power module for the motherboard
- Fully modular - because I don't like unnecessary cables hanging around, if I need to add a power connector, I can always install an additional one
- \$500 on New Egg

Source: <https://www.newegg.com/fsp-cannon-pro-2000-w/p/1HU-0095-000U9>

Peripherals

- Monitor
 - Dell UltraSharp UP3218K 32" 8K UHD (New Egg: \$3,670)
 - HDMI2.1 & Display Port
 - 1.07 billion colors
 - Good for color correction
- Keyboard/Mouse
 - Corsair K100 Air Wireless RGB Ultra-Thin Mechanical Keyboard (Corsair: \$280)
 - Corsair Dark Core RGB Pro Wireless Gaming Mouse (Corsair: \$90)



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Sources: <https://www.newegg.com/dell-up3218k-5-8k-uhd-p/0-IC-0004-00S1J5?item=9SAFVJ278551>
<https://www.corsair.com/us/en/p/gaming-mouse-ch-9315411-na/dark-core-rpb-rp-wireless-gaming-mouse-ch-9315411-na>
<https://www.corsair.com/us/en/p/keyboards-ch-913a011-na/6100-air-wireless-rp-ultra-thin-mechanical-gaming-keyboard-cherry-mx-ultra-low-profile-tactile-ch-913a011-na>

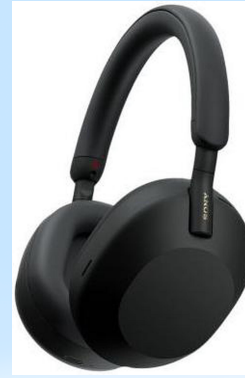
- The monitors I'd use are 3 32" Dell UltraSharp 8K displays; they are recommended for 8K video editing by the video editing community
 - They support HDMI2.1 and Display port.
 - They use 1.07 billion colors, which is important for video editors, especially once it is time for color correction to set the mood for the scene for the audience.
 - 3 displays because I like to have my timeline on one, video playback and audio monitors on another, and footage bins and preview monitor on the third
 - \$3,670 per monitor
- Keyboard and Mouse
 - Corsair K100 Wireless Mechanical keyboard & the Dark Core Pro wireless mouse, because I don't like cable clutter and sometimes I do edit from my TV, so it makes it easier to move around - Corsair specifically because I've used their devices in the past and they are comfortable to use. There are programable buttons on the mouse, which come in handy when navigating a populated timeline.
 - Mouse \$90 on Corsair's website
 - Keyboard \$280 on Corsair's website

Sources:

Monitor: <https://www.techradar.com/best/best-5k-and-8k-monitors#section-best-8k-monitor>

More Peripherals

- Headphones
 - Sony WH-1000XM5 (NewEgg: \$348)
 - Wireless (Bluetooth5.2)
 - Noise Canceling
 - Clear Audio
- Memory Card Reader & External HDD Reader
 - Uni 4-in-1 Card Reader
 - Transferring Footage from Camera
 - Supports SD/CF/TF/MS cards
 - NewEgg \$26
 - Orico Dual Bay SATA External HDD Enclosure
 - Some cameras record directly onto an HDD
 - NewEgg \$21



Sources: <https://www.newegg.com/p/1V1-000B-00109?item=680&page=6818>
<https://www.newegg.com/p/0J2-07AR-009U5>
<https://www.newegg.com/orico-6228us3-c-us-bk-dock/p/0VN-0003-00109>

For audio editing, it is much easier to edit with a good pair of headphones because you can hear the articulation of words better, speakers don't do a good enough job, and you don't want to annoy the people in your household by listening to the same thing repeatedly.

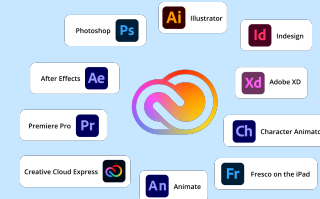
- These Sony WH-1000XM5s are highly recommended wireless headphones from the film community.
- Plus, they use the latest Bluetooth technology, so there shouldn't be too much latency for clear audio.
- They are also Noise canceling to block out ambient sounds around you
- \$348 on NewEgg
- Memory Card reader for transferring footage - not all cameras record onto the same kind of memory card, so one that supports a variety will be good to have
- Not all cameras record onto a memory card. Some still will record onto a hard drive like Red Cameras, so an external hard drive reader would be good to have so I don't have to constantly reboot my system to plug in a camera's hard drive.

Sources:

- Best Headphones: <https://riverside.fm/blog/best-headphones-for-video-editing>
- Sony Product Page: <https://electronics.sony.com/audio/headphones/headband/p/wh1000xm5-b?srsItid=AfmBOoqmQjxDGbKc5nbOmiwaptqPtcS2hx6IRVrC7f7rFw-JVqRgdshq>
- Card Reader: <https://www.newegg.com/p/0J2-07AR-009U5>
- HDD Reader: <https://www.newegg.com/orico-6228us3-c-us-bk-dock/p/0VN-0003-00109>

Operating System & Software

- Microsoft Windows 11 Pro (NewEgg:\$180)
- Adobe Creative Cloud: All Apps (\$660 /yr)
 - Adobe Premiere Pro
 - Adobe Photoshop
 - Adobe After Effects
 - Adobe Audition



	Minimum	Recommended
Processor	- Intel® 6th Generation or newer CPU – or AMD Ryzen™ 3000 Series or newer CPU - Advanced Vector Extensions 2 (AVX2) Support required	Intel® 11th Gen or newer CPU with Quick Sync – or AMD Ryzen™ 3000 Series / Threadripper 3000 series or newer CPU
Operating system	Windows 10 (64-bit) V22H2 or later	Windows 10 (64-bit) version 22H2 (or later) or Windows 11
Memory	8 GB of RAM	16 GB of RAM for HD media 32 GB or more for 4K and higher
GPU	2 GB of GPU memory	8 GB of GPU memory
Storage	8 GB of available hard-disk space for installation; additional free space required during installation (will not install on removable flash storage) - Additional high-speed drive for media	- Fast internal SSD for app installation and cache - Additional high-speed drive(s) for media
Display	1020 x 1080	1920 x 1080 or greater - DisplayHDR 1000 for HDR workflows
Sound card	ASIO compatible or Microsoft Windows Driver Model	ASIO compatible or Microsoft Windows Driver Model
Network		
storage connection	1 Gigabit Ethernet (HD only)	1 Gigabit Ethernet (HD only) 10 Gigabit ethernet for 4K shared network workflow

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Sources: <https://www.newegg.com/microsoft-windows-11-pro/v3/N82C16832351757?em=N82C16832351757>
<https://get.adobe.com/au/creativecloud/compare/compare-features.html>
<https://www.microsoft.com/windows/windows-11-specs>

- For the operating system, Windows 11 will have to do. Adobe doesn't support Linux, and for macOS, you can't install it on custom-built PCs since modern Macs run on their proprietary ARM chips now and don't support Intel chips anymore.
 - On NewEgg \$180
- My editing software of choice is the Adobe Creative Cloud suite, which costs about \$660 a year.
 - Premiere Pro - Video Editing
 - Photoshop - Photo and graphics editing
 - After Effects - build special effects projects and animations

Total Cost

Shopping Carts

Item	Price	Qty	Total	Source
Motherboard: ASUS Pro WS WRX90E-SAGE SE	\$1,299.99	1	\$1,299.99	
Case: Corsair 6500X Mid-Tower	\$199.99	1	\$199.99	
CPU: AMD Ryzen Threadripper PRO 7995WX	\$9,999.00	1	\$9,999.00	
RAM: CORSAIR Vengeance 32GB DDR5 (2-pack)	\$169.99	4	\$679.96	
GPU: MSI Navida GeForce RTX 4090	\$1,979.99	1	\$1,979.99	
SSD: Samsung 990 Pro 2TB M.2	\$169.99	1	\$169.99	
HDD: WD 22TB Red Pro 7200 RPM	\$449.99	2	\$899.98	
Liquid CPU Cooler: Corsair iCUE H150i	\$149.99	1	\$149.99	
PSU: FPS CANNON PRO 2000W ATX	\$499.99	1	\$499.99	
Monitor: Dell UltraSharp UP3218K 32" 8K UHD	\$3,670.22	3	\$11,010.66	
Keyboard: Corsair K100 AIR Wireless Mechanical	\$279.99	1	\$279.99	
Mouse: Corsair Dark Core RGB Pro Wireless	\$89.99	1	\$89.99	
Headphones: Sony WH-1000XM5	\$348.00	1	\$348.00	
OS: Microsoft Windows 11 Pro	\$179.99	1	\$179.99	
Software: Adobe Creative Cloud Subscription (Annual)	\$659.88	1	\$659.88	

Cost Per Source

Source	Total
	\$27,267.54
	\$519.97
	\$659.88
Total Cost	\$28,447.39

Image Source: <https://1000logos.net/wp-content/uploads/2022/08/newegg-logo.png>
<https://1000logos.net/wp-content/uploads/2022/10/Corsair-Logo.png>
<https://dojohartman.com/wp-content/uploads/2017/10/adobe-logo.png>
 Core Source: <https://stock.adobe.com/stock-images/new/314628862/Adobe-Creative-Cloud-Subscription-Information-Graphic-en>
<https://newegg.in/31/3946/>

This system is not cheap. On New Egg, I'm looking at \$27,270, Corsair \$520, and Adobe \$660, for a grand total of \$28,447.

The most expensive components are the Threadripper CPU, which will cost almost \$10,000, the RTX4090, which will cost \$1,980, the motherboard, which will cost \$1,300, and the three monitors, which will cost up to \$11,000.

Summary

Video Editing Power House

- Mobo: ASUS Pro WS WRX90E-SAGE SE
- CPU: AMD Ryzen Threadripper Pro 7995WK
- GPU: NVIDIA GeForce RTX 4090
- RAM: 256GB of DDR5-5600MHz
- Storage: 50TB
- PSU: 2000W
- CPU Cooler: Liquid
- Total Cost: \$28,447



All this should make a killer video editing system, and it isn't cheap.

Thank You!

The End

Sources

- <https://www.techpowerup.com/cpu-specs/ryzen-9-5950x.c2364>
- https://www.asus.com/us/motherboards-components/motherboards/workstation/pro-ws-wrx90e-sage-se/helpdesk_manual?model2Name=Pro-WS-WRX90E-SAGE-SE
- <https://www.techradar.com/pro/best-graphics-cards-for-video-editing-of-year>
- <https://www.amd.com/en/products/processors/ecosystem/threadripper-cooling-solutions.html>
- <https://www.corsair.com/us/en/p/pc-cases/cc-9011257-ww/6500x-mid-tower-dual-chamber-pc-case-black-cc-9011257-ww>
- <https://www.corsair.com/us/en/p/cpu-coolers/cw-9060060-ww/icue-h150i-rgb-elite-liquid-cpu-cooler-cw-9060060-ww>
- <https://www.corsair.com/us/en/p/keyboards/ch-913a01u-na/k100-air-wireless-rgb-ultra-thin-mechanical-gaming-keyboard-cherry-mx-ultra-low-profile-tactile-ch-913a01u-na>
- <https://www.corsair.com/us/en/p/gaming-mouse/ch-9315411-na/dark-core-rgb-pro-wireless-gaming-mouse-ch-9315411-na>
- <https://www.amd.com/en/search/site-search.html?q=amd%ryzen%threadripper%pro%7995wx>
- <https://www.corsair.com/us/en/s/corsair-memory#ddr5>
- <https://www.techradar.com/best/best-5k-and-8k-monitors#section-best-8k-monitor>

More Sources

- <https://riverside.fm/blog/best-headphones-for-video-editing>
- <https://www.adobe.com/creativecloud/plans.html>
- <https://medium.com/@LarryFogarty/intel-vs-amd-processor-for-video-editing-ultimate-showdown-dfec545659f3>
- https://miro.medium.com/v2/format:webp/0*Y4CahDwFAOfJyDWj
- <https://newegg.io/879ae8c> (Build)
- <https://checkout.corsair.com/checkouts/co/f34ad8908c7424eddbdf2922a86ac287/information?locale=en> (Build)
- <https://acecloud.ai/resources/blog/nvidia-cuda-cores-explained/>
- <https://www.comprint.co.in/blog/comparing-amd-vs-nvidia-which-graphic-card-brand-is-right-for-you#:~:text=Content%20Creation,%20Blender%20and%20DaVinci%20Resolve>
- <https://acecloud.ai/resources/blog/nvidia-cuda-cores-explained/>
- <https://www.amd.com/en/products/graphics/desktops/radeon/7000-series/amd-radeon-rx-7900xtx.html>