

Team Water Bottle (Benjamin Botnik, Atticus Bacon)

IntroCS pd 5

i0lab1

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CPU: The **Intel Core i7-9700K** is one of the best CPUs for running FS2020 primarily due to its fast clock speeds as well as the multiple cores featured. It is also unlocked, so you can increase the clock speed even beyond the 4.9 GHz as long as you practice caution. Flight simulator demands much higher clock speed than many other modern games. Additionally, it has a much lower price point at \$369.99 compared to many i9 processors with similar performance at around \$500.

CPU Cooler: The **corsair h115i rgb platinum 97 cfm liquid cpu cooler** Has a 280 mm radiator with vibrant red, blue, and green LED lights. It is built for extreme CPU cooling. Because of the flight simulator's demand for high clock speed, it also requires greater cooling and airflow. The price is \$169.99.

Motherboard: The **Asrock b365m phantom gaming 4 micro atx lga1151 motherboard** allows many of the other features to work as well as they possibly can, due to its support of overclocking, support of lots of RAM, and support of all the other components. The price is \$120.14.

Memory:

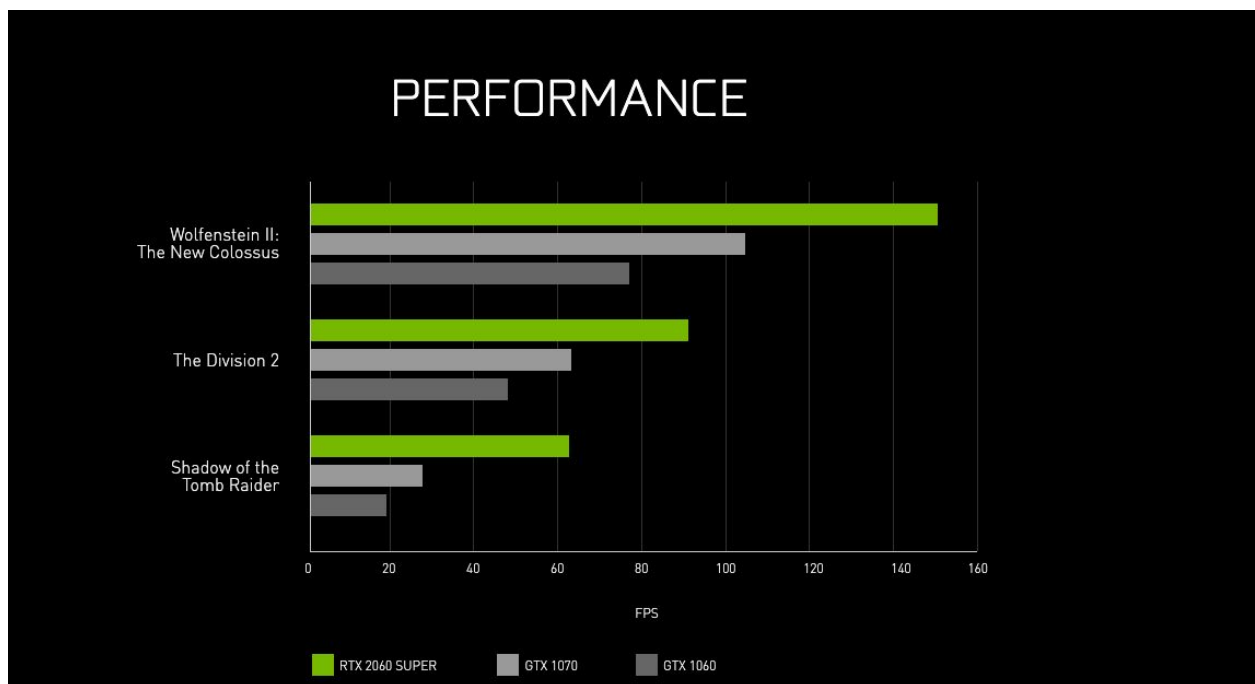
**Kingston HyperX Fury 16 GB (2 x 8 GB) DDR4-3200 Memory**

This amount of RAM is more than enough to allow the whole system to maintain its speed when multitasking and is not too expensive. The price is \$87.70.

Storage:

The **Seagate Barracuda Compute 2 TB 3.5" 7200RPM Internal Hard Drive** simply provides extra space for anything else you want to store on the computer, and allows for a lot of flexibility. Additionally, it could allow for greater organization of files. The price is \$50.99.

Video Card: The video card is extremely important in the flight simulator as it is responsible for the graphics. The **NVIDIA GeForce RTX 2060 SUPER 8 GB Video Card** is capable of processing the heavy workloads of modern games. The price is \$399.99. Below is the graph of its performance:



\*This picture compares the performance of RTX 2060 SUPER with other video cards. The performance is shown for 3 different video games. RTX 2060 SUPER definitely beats them all.

Case: The **NZXT H510 ATX Mid Tower Case** has a very clean and modern design. Its job is to protect all of the parts of the machine (like the ribs protect the heart of the human body). It has a tempered-glass side panel which allows one to see all of the parts within the machine. The price is \$69.99.

Power Supply: The **Corsair RM (2019) 750 W 80+ Gold Certified Fully Modular ATX Power Supply** provides sufficient power and is optimized for silence. The efficiency of this power supply will save money on your power bill and the high-quality parts will deliver stable, continuous, and clean power. You will not see your screen turn off during flights. The price is \$124.99.

Operating System: **Microsoft Windows 10 Home OEM 64-bit** (\$109.99)

Monitor: The **AOC C24G1 24.0" 1920x1080 144 Hz Monitor** is quite wide and has a curved screen which adds to the depth and experience. The 144 Hz refresh rate allows for a sharp and smooth transition of each frame. The price is \$279.

Keyboard: The **Corsair K55 + HARPOON RGB** is a standard gaming keyboard with a backlight that will fit your needs for gaming. The price is \$59.99.

Mouse: The **Razer DeathAdder Elite Wired Optical Mouse** has a very high DPI for the price which will keep your actions precise and quick. The price is \$39.99.

Headphones: The **Kingston HyperX Cloud II 7.1 Channel Headset** is perfect for blocking out sound and immersing yourself in the perfect flying experience. The price is \$99.99.

Total Price: \$1984.74

Price without software: **\$1864.75**

This computer is well under your price range, and it offers excellent specs for playing FS2020 at max settings. One of the most important components, the graphics card, is very powerful and will allow for smoother and more immersive gameplay.

Compatibility: No issues or incompatibilities found.						Estimated Wattage: 379W	
Component	Selection	Base	Promo	Shipping	Tax	Price	Where
CPU	Intel Core i7-9700K 3.6 GHz 8-Core Processor	\$369.99		FREE		\$369.99	Buy
CPU Cooler	Corsair H115i RGB PLATINUM 97 CFM Liquid CPU Cooler	\$169.99				\$169.99	Buy
Motherboard	ASRock B365M Phantom Gaming 4 Micro ATX LGA1151 Motherboard	\$122.15				\$122.15	Buy
Memory	Kingston HyperX Fury 16 GB (2 x 8 GB) DDR4-3200 Memory	\$87.70				\$87.70	Buy
Add Additional Memory							
Storage	Seagate Barracuda Compute 2 TB 3.5" 7200RPM Internal Hard Drive	\$50.99				\$50.99	Buy
Add Additional Storage							
Video Card	NVIDIA GeForce RTX 2060 SUPER 8 GB Video Card	\$399.99				\$399.99	Buy
Case	NZXT H510 ATX Mid Tower Case	\$69.99		FREE		\$69.99	Buy
Power Supply	Corsair RM (2019) 750 W 80+ Gold Certified Fully Modular ATX Power Supply	\$124.99				\$124.99	Buy
Optical Drive	Choose An Optical Drive						
Operating System	Microsoft Windows 10 Home OEM 64-bit	\$109.99		FREE		\$109.99	Buy
Software	Choose Software						
Monitor	AOC C24G1 24.0" 1920x1080 144 Hz Monitor	\$278.99		FREE		\$278.99	Buy
Add Another Monitor							
Keyboard	Corsair K55 + HARPOON RGB Wired Gaming Keyboard With Optical Mouse	\$59.99		FREE		\$59.99	Buy
Add Another Keyboard							
Mouse	Razer DeathAdder Elite Wired Optical Mouse	\$39.99		FREE		\$39.99	Buy
Add Another Mouse							
Headphones	Kingston HyperX Cloud II 7.1 Channel Headset	\$99.99		FREE		\$99.99	Buy
Add Headphones							
External Storage	Choose External Storage						
Laptop	Choose A Laptop						
Accessories / Other	Case Accessories, Case Fans, Fan Controllers, Thermal Compound, UPS Systems						
Expansion Cards / Networking	Sound Cards, Wired Network Adapters, Wireless Network Adapters						
Peripherals	Headphones, Keyboards, Mice, Speakers						
						Total: \$1984.74	

\*zoom in to view prices and parts more clearly