

X-STREAM COMPUTER HARDWARE RECOMMENDATIONS

	Desktop
CPU:	To ensure maximum camera FPS, we recommend using an Intel® Core [™] X-Series Processor which has at least 28 PCIE lanes (As of this writing, every Intel® Core [™] X-Series Processor in production has 28-44 PCIE lanes). For example, an <u>i7-9800X</u> or <u>i7-7800X</u> processor. The camera will generally work with processors that have fewer PCIE lanes (typically 16 for consumer grade processors) but will have a limited FPS depending on the specific processor/motherboard combination used.
Motherboard:	Motherboard with a compatible X-Series chipset. For example, an ASUS TUF X299 Mark 2 LGA2066 with the i7-9800X.
GPU:	Live playback performance is affected by the GPU installed. Low-resolution cameras will perform fine with a GTX 1060, but higher-resolution cameras will require a GTX 2080 TI to get full 60 FPS @ 4k with all post-processing enabled.
RAM:	We recommend using a minimum of 16GB DDR4 RAM @ 2400MHz, 32GB DDR4 RAM @ 3000MHz for optimal performance.
Storage:	If the customer plans to use streaming mode, we recommend using an NVMe SSD like the Samsung 970 Pro for optimal performance (RAID0 for even better).

Laptop

The X-Stream cameras can achieve their theoretical maximum FPS even on laptops, but only if the laptops are equipped with a full Thunderbolt 3 Port.

While Thunderbolt 3 ports share the same form factor as USB-C 3.0, they are completely different when it comes to bandwidth capabilities. USB-C 3.0 only promises a maximum of 5 Gbps vs 40 Gbps on a Thunderbolt 3.



When purchasing a laptop to use with the X-Stream camera, it is vital to make sure the laptop is equipped with at least one full Thunderbolt 3 port.

Thunderbolt 3 ports will usually have a small lightning bolt logo next to them to denote their performance. If there is no logo present, or if there is a USB logo, then the port is probably only a USB-C 3.0.

The spec sheet of the laptop is probably the best place to check for the capabilities of the laptop.