

Asus will pack on 300-hertz refresh rate for gamers

September 5 2019, by Nancy Cohen



Credit: Asus

Asus has stirred up interest in its gaming display for laptops. Asus fittingly chose Europe's largest consumer tech show for the debut site of its fast laptop gaming display. These are being tagged as gaming

machines with 300Hz displays—meaning? These are gaming laptops that can push refresh rates to 300Hz.

A note on refresh rates from *Laptop Mag*: "If you're buying a [gaming laptop](#), you'll want to consider two more factors: refresh rate and [response time](#). Measured in hertz, the refresh rate is the number of times per second that the screen updates itself."

PCWorld said that "Higher-refresh panels typically help make gaming and even scrolling of 2-D content appear far [smoother](#)."

"Some PC gamers might still [laugh](#) at the idea of using a laptop instead of desktop," said Joshua Goldman in CNET, but that's certainly not stopping Asus."

Think mobile gaming and see Asus chase the opportunity. Next month, the Asus Zephyrus S GX701 is set to become available as a laptop with the 300Hz screen option.

Gordon Mah Ung, [executive editor](#), *PCWorld*, helped bring some perspective to the hoopla. "Although Asus is unlikely to be the only laptop maker with a 300Hz panel at IFA Berlin," he wrote, "it's the first to announce (though pricing and availability remain unknown)."

On Wednesday, Kevin Lee, hardware and roundups editor, IGN, wasted no time checking out the Asus star attraction. "While [testing](#) out the Asus ROG Zephyrus S GX701, I saw a constantly flowing stream of crisp images that would even put a 240Hz gaming monitor to shame."

Rub Thubron in *TechSpot* noted what made this 300Hz number worth some attention. "Asus says 300Hz screens can draw 5X more frames than the 60Hz displays found on most laptops and represents a 25 percent increase over the current standard for high-level esports

tournaments. It added that this refresh rate could draw a complete new frame every 3.3ms, which is nearly as fast as the 3ms response time of the [pixels](#)."

Lee in IGN similarly reported a refresh rate "almost perfectly timed to the display's 3.3ms response time." He said the specs allowed the GX701 to render a new frame almost perfectly synced to any in-[game](#) action, for example, such as looking in a different direction or taking a step.

Do you need a high refresh gaming monitor? asked *Digital Trends* last month. Matthew Smith wrote that a "[higher](#) refresh rate helps to decrease the blur by giving our brains more information to act on, in turn reducing perceived blur... Gamers will notice sharper visuals during fast action."

Smith said, "In short, if you're a gamer, we'd argue that you would see a greater, more obvious benefit from switching to a high-refresh rate monitor than you would in upgrading to 4K."

Finally, for those with spinning heads from reading out model numbers, a supportive remedy would be *Pocket-lint* as it explains where the GX701 sits under the Asus umbrella. Adrian Willings said the Asus ROG Zephyrus S GX701 was "the top end of the Zephyrus line-up and similar to the ultra-thin but powerful gaming laptop we saw and reviewed recently. Except now, Asus is adding the option of an eye-watering 300Hz, Pantone Validated, 100 percent sRGB panel."

Williams placed it as a high-end gaming laptop "aimed at eSports gamers and pro players who demand the very best [visuals](#)." [Gadgets Now](#) said the Asus GX701 packs a 17-inch display.

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