

GAMING PC

CyberPower Infinity X55 1070 / £1,499 inc VAT

SUPPLIER www.cyberpowersystem.co.uk

CyberPower's Infinity X55 1070 is a mid-range gaming rig, but the sub-£1,500 budget hasn't prevented the firm from choosing an attractive and innovative case. The In Win 303 is an attractive tower with a minimal façade and a tempered glass side panel. It's made from glass and steel, and mixes up its features and layout. The side panel is tool-free and is removed vertically by unclipping a small handle, while the ports and logo on the front are surrounded by bright blue highlights.

The different design continues on the inside. The PSU is hidden behind a shroud at the top of the case, with space behind it for storing cables. The PSU is installed vertically too, which makes that shroud narrower than usual, so there's room on the front for fan mounts. CyberPower has used these mounts to install a Corsair Hydro H100i V2 water-cooling unit, pulling air through the PSU shroud, where it's vented out the back of the case, with the two coolant tubes curving down to the motherboard below.

The motherboard is installed normally, with the graphics card towards the bottom of the case, and CyberPower has done a reasonable job with cable tidying, despite the lack of braided cables or rubber-grommeted cable holes, so getting to the board is exceedingly simple.

This build looks good too, with the black hardware smartly illuminated by a white LED strip hidden in the roof. There's loads of room to work inside this case, but the modest cooling gear means there's a huge amount of empty space at the front that isn't used. Upgrade room isn't hugely generous either; the motherboard serves up the usual array of slots and sockets, but the chassis only has a single 3.5in bay and two 2.5in mounts free. It ends up looking a little like wasted space, especially when there isn't even any airflow from a front intake fan.

CyberPower has built this PC around several solid mid-range components. The MSI Aero GTX 1070 card has a modest overclock – the core runs at 1531MHz rather than 1506MHz, which means the boost clock improves to 1721MHz, while the memory remains at stock speed. Meanwhile, the 3.5GHz Intel Core i5-6600K has been tweaked to run with an extra 1GHz of pace across its four cores.



Then there's the attractive 16GB of Corsair Vengeance LED memory, with white LEDs to match the rest of the system, and a decent clock frequency of 3000MHz. Windows 10 is also installed Windows 10 on a 256GB Intel 600p SSD – a new model designed for the mid-range market.

The MSI Z170A Gaming Pro Carbon motherboard is another competent mainstream part. It has glowing RGB LEDs on the right, which are customisable, and CyberPower has set them to glow red. It also has USB 3.1 ports, plenty of on-board ports and slots and a good selection of rear I/O connectors, although it's missing enthusiast features such as on-board buttons and a POST display. It doesn't

have Wi-Fi either. The PSU is another solid piece of hardware too. The Corsair CX600M is semi-modular and comes with an 80 Plus Bronze certification, while offering ample power for the overclocked CPU and GPU.

CyberPower's warranty remains generous too, with a three year labour deal that gives you a full two years of parts protection, although you only get a single month of collect and return cover before it reverts to a return to base deal.

Performance

The GTX 1070 continues to be a supremely solid gaming card. It stormed through The Witcher 3 without dropping below 100fps at 1080p, and its weakest minimum at 2,560 1,440 was a still solid 41fps in Deus Ex: Mankind Divided. It dropped to 23fps in Fallout 4 and 22fps in Deus Ex at 4K, though, so you'll only get playable 4K frame rates if you're willing to compromise on graphical quality.

Meanwhile, the Core i5 processor has familiar strengths and weaknesses. The CyberPower's image editing result of 63,833 is a little better than this month's Yoyotech BlackBox S3, which deployed a Core i7-6700K overclocked to 4.4GHz – evidence that the Core i5 is just as quick when it comes to single-threaded tasks.

However, the CyberPower's Core i5 processor only helped the system to a score of 262,543 in our heavily multi-threaded H.264 video encoding test, compared to the Yoyotech system's much faster 305,154. The overclocked Core i5 won't bottleneck any games, though, and it will easily handle most computing tasks – you'll only notice a difference in heavily multi-threaded workloads.

We had high hopes for the Intel 600p SSD too, as it uses the PCI-E bus and NVMe protocol, but it only delivered read and write speeds of 1,402MB/sec and 588MB/sec. The former figure is around three times as quick as a standard SATA SSDs, but the latter result is no faster than those older

SPECIFICATIONS

- CPU** 3.5GHz Intel Core i5-6600K overclocked to 4.5GHz
- Motherboard** MSI Z170A Gaming Pro Carbon
- Memory** 16GB Corsair Vengeance LED 3000MHz DDR4
- Graphics** MSI GeForce GTX 1070 8GB
- Storage** 256GB Intel 600p M.2 SSD; 1TB Western Digital Blue hard disk
- Case** In Win 303
- Cooling** CPU: Corsair H100i V2 with 2 x 120mm fans; GPU: 1 x 70mm fans; rear 1 x 120mm fan
- PSU** Corsair CX600M 600W
- Ports** Front: 2 x USB 3, 2 x USB 2, 2 x audio, 1 x SDXC; rear: 2 x USB 3, 2 x USB 3.1, 4 x USB 2, 1 x PS/2, 1 x Gigabit Ethernet, 1 x optical S/PDIF, 5 x audio
- Operating system** Microsoft Windows 10 Home 64-bit
- Warranty** Two years parts and labour with first month collect and return, followed by one year labour only return to base

- 1** The PSU is installed vertically at the top of the In Win chassis
- 2** The MSI Aero GTX 1070 card has a modest overclock
- 3** The 16GB of Corsair Vengeance LED RAM has white LEDs

drives. It will be fast enough for most people's needs, but it can't compete with the latest Samsung hardware.

The use of mid-range components with an airy interior and liquid cooling meant we had no problem with heat and noise from this machine though. The processor's peak delta T of 39°C was only reached on one core, with the other three cores all significantly chillier, while the GPU delta T topped out at 52°C – a fine result. The CyberPower was near silent when idle too, and barely any louder during tough gaming tests, which means this machine can play the latest titles without making a racket.

Conclusion

CyberPower's Infinity X55 1070 offers a well-built, good-looking and quiet system for gaming at 2,560 x 1,440. There's nothing groundbreaking, but it's well thought out, with a balanced set of components for the money.

The CPU isn't the fastest one available either, but it's still plenty fast enough for most people, and it certainly has enough power for gaming. If you're looking for a



well-designed, quiet gaming rig for under £1,500, then the Infinity X55 1070 will do you proud.

MIKE JENNINGS

CPC REALBENCH 2015

GIMP IMAGE EDITING



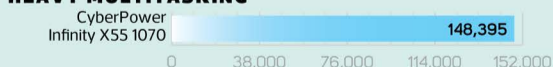
HANDBRAKE H.264 VIDEO ENCODING



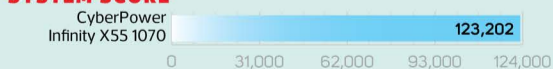
LUXMARK OPENCL



HEAVY MULTITASKING



SYSTEM SCORE



INTEL REFERENCE: 107.64%

SPEED
20/25

DESIGN
21/25

HARDWARE
22/25

VALUE
22/25

OVERALL SCORE
85%

VERDICT

A well-built, quiet and good-looking system with a solid selection of components and plenty of power for 2,560 x 1,440 gaming.

FALLOUT 4

1,920 x 1,080, Ultra Detail, TAA



2,560 x 1,440, Ultra Detail, TAA



3,840 x 2,160, Ultra Detail, TAA



THE WITCHER 3: WILD HUNT

1,920 x 1,080, High Detail, HairWorks off



2,560 x 1,440, High Detail, HairWorks off



3,840 x 2,160, High Detail, HairWorks off

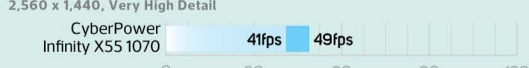


DEUS EX: MANKIND DIVIDED

1,920 x 1,080, Very High Detail



2,560 x 1,440, Very High Detail



3,840 x 2,560, Very High Detail



Minimum Average