

The Ultimate Digital Imaging and Video PC Workstation.

The following are the actual specifications of the workstation as built:

Silverstone TJ09 solid aluminum black anodized case,

ASUS P6T Deluxe Motherboard,

EVGA GTX 280 video Card with 1GB DDR3,

Antec 1000 Watt power supply,

*Intel i7 920 chip clocked to 3.70 GHz. (8 core)

Noctua CPU cooler (Twin 120mm fan) NH-U12P SE1366

12GB OCZ Gold (6X2) DDR3 1600 MHz. triple channel memory,

Twin Western Digital 300GB Velociraptor 10,000 rpm hard drives striped to Raid 0,

Twin Western Digital Caviar 1TB drives for internal storage.

Twin 24 inch .02 ms displays

LG Blue Ray burner, CD/DVD Burner with LightScribe,

NMediaPC all in one Media reader, Twin Scythe fan controllers for six fans

Custom installed sound dampening throughout the case,

Windows XP Pro 64 bit OS

TeraStation Pro Raid 5 Networked external hard drive with 1TB capacity

Razor Lycosa backlight programmable keyboard.

Kensington Pro graphics mouse.

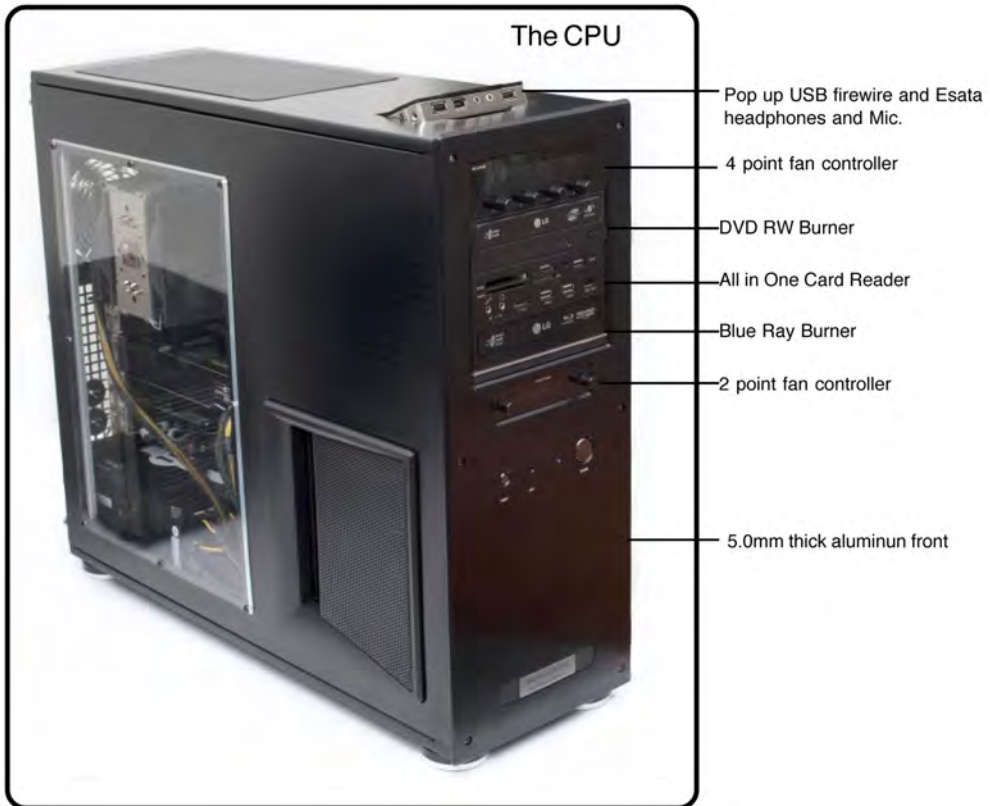
*Case has 7 Scythe Sff12F 120mm fans 6 with temp read-out one controlled my MB on CPU.

*The Intel i7 Processors are the fastest processors on the planet, and the over-clocked 920 has proven to not only produce record breaking speeds but rock solid stability as well.

Overall System Layout.



The CPU



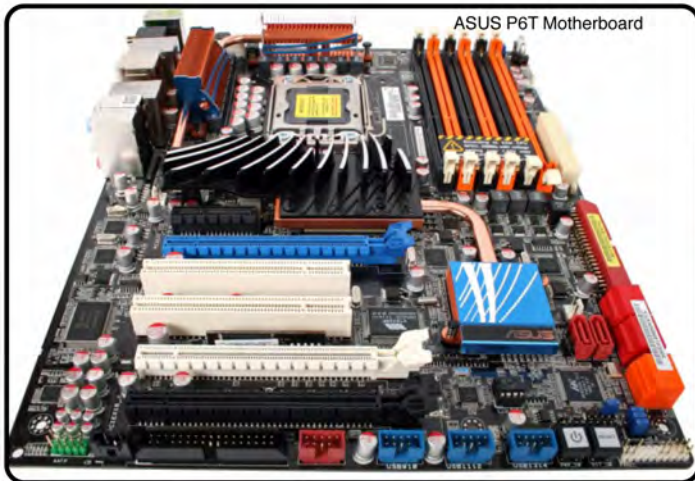


Noctua twin fan CPU cooler

6X2BG Memory

EVGA 280 SSC Video card

1000W Power Supply



ASUS P6T Motherboard



Video Card



The Razor Lycosa keyboard backlit in blue with one-touch pre-programmed keys that launch your programs with a single keystroke. Every key on the board is user programmable and it can auto detect the program you are currently working in.



Just a very nice feel and response for a full featured graphics mouse.



With two USB 2.0 ports, TeraStation Pro II can accommodate additional external USB hard drives for backup of the TeraStation or for additional network storage. With its quick swap hard drive trays, TeraStation Pro II requires no computer knowledge to swap out replacement hard drives in seconds. This allows for significantly less down time and quicker drive recovery. The TeraStation has its own operating system and is a Raid 5 array. It is connected to the computer via Ethernet connection and acts as a networked server.

Builder's notes:

The premise of this build was to assemble components that will produce a very fast and stable PC platform for digital imaging. Keeping in mind that HD video will also be necessary on this build extra speed becomes more critical.

The Processor is an eight-core i7 with a unique architecture that uses triple channel memory. This processor family is rated as the fastest on the planet and the 920 as possibly the single best choice for over-clocking. This build is currently over-clocked at 3582.30 MHz and has run cool (44 degrees C) and stable over a 40hour test. This chip can be over-clocked to 3.7GHz.

The memory chosen was OCZ Gold 240-Pin DDR3 SDRAM. The rated speed DDR3 1600 (PC3 12800) and a timing of 8-8-8-24 total memory is 12.0 GB This is the fastest memory that the chip will accept.

The Mother board ASUS P6T was selected because the reviews were so strong. The bios allows for extreme customization of the processor and memory. It is very easy to over-clock.

Fantastic onboard desktop monitoring of the systems' critical conditions. The layout of the board was designed from the ground up for the new i7 processor and with the avid gamer in mind. There are lots of perks with this motherboard.

The hard drive configuration is also special. Western Digital Velociraptor 10,000 RPM hard drives were chosen to host the operating system and applications. These drives are some of the fastest hard drives on the market less solid-state drives. Twin drives are striped together in Raid 0 for sheer speed. Two additional WD Caviar 1TB drives are also on board set with no raid and partitioned into four separate 500GB groups for storage. The unit has room for two additional internal HD's for future upgrades. The hard drive bay has a dedicated fan to keep it extra cool. In addition to the on board HD's an external TeraStation Pro 1TB is attached for fast Raid 5 secure back-up.

The EVGA 280 GT has 1 GB DDR3 on board as compared to our standard video card with 512MB DDR2 The video pipe on this card is massive and I haven't been able to do anything to choke it.

The LG Blue Ray burner was added it enable the user to burn the highest resolution HD video onto disk for sharing and display.

Everything is wrapped up in the Silverstone TJ09 full tower case. This is a world-class case no expense was spared here Solid aluminum construction and obvious quality everywhere you look. This case was modified with full sound deadening treatment.

The displays are twin and matched ACER 24 inch monitors with a 3000:1 contrast ratio and a 2Ms response time, which is very bright and sharp.

This unit was hand built with extra care to be somewhat of a showpiece. All wires are wrapped with sleeves and tied with shrink-wrapped ends. The internal build is visible through the large window on the right side. NO internal lighting was added; personally I think that type of window dressing is tacky.