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Dell T5500

Dell Precision T5500 Workstation User Manual

1. INTRODUCTION

This user manual provides detailed instructions for the Dell Precision T5500 Workstation. It covers setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your system. Please read this manual thoroughly before using your workstation.

2. PRODUCT OVERVIEW

The Dell Precision T5500 is a high-performance workstation designed for demanding business and professional applications. This configuration includes:

- Dual Intel Xeon Quad-Core Processors (up to 3.33GHz)
- 32GB DDR4 RAM
- 500GB Solid State Drive (SSD) for primary storage
- 4TB Hard Disk Drive (HDD) for high-capacity storage
- Windows 10 Professional operating system
- Four 24-inch monitors with a quad stand for an expansive display setup



This image displays the Dell Precision T5500 Workstation tower alongside a quad monitor setup. Four 24-inch monitors are mounted on a single stand, showcasing a cityscape background across all screens. The workstation tower is black and silver, positioned to the right of the monitors.

3. SETUP INSTRUCTIONS

- 1. Unpacking:** Carefully remove all components from the packaging. Verify that all items listed in your purchase documentation are present.
- 2. Monitor Assembly:**
 - Assemble the quad monitor stand according to its specific instructions.
 - Attach each of the four 24-inch monitors to the stand. Ensure they are securely fastened.
- 3. Connecting Peripherals:**
 - Connect your keyboard and mouse to the available USB ports on the workstation.
 - Connect any other necessary peripherals (e.g., speakers, external drives).
- 4. Connecting Monitors:**
 - Identify the video output ports on the workstation's graphics card (NVIDIA Quadro FX 3800).
 - Connect each of the four monitors to the workstation using appropriate video cables (e.g., DisplayPort, DVI, HDMI, depending on your specific graphics card and monitor inputs). Ensure all four monitors are connected.
- 5. Power Connection:**
 - Connect the power cable to the workstation's power supply unit.
 - Connect the power cables for each monitor to a power outlet.
 - Plug the workstation's power cable into a grounded electrical outlet.
- 6. Initial Power On:**
 - Press the power button on the front of the workstation.
 - Turn on each monitor.

- The system will boot into Windows 10 Professional. Follow any on-screen prompts for initial setup, such as language selection, network connection, and user account creation.

4. OPERATING INSTRUCTIONS

1. **Windows 10 Professional:** Familiarize yourself with the Windows 10 Professional operating system. Access the Start Menu for applications, settings, and system information.
2. **Multi-Monitor Configuration:**
 - Once Windows is loaded, right-click on the desktop and select "Display settings" to configure your four monitors.
 - Arrange the displays to match their physical layout.
 - Adjust resolution, orientation, and scaling as needed for optimal viewing.
3. **Storage Management:**
 - The system includes a 500GB SSD for the operating system and frequently used applications, and a 4TB HDD for data storage.
 - It is recommended to install applications on the SSD for faster performance and save large files to the 4TB HDD.
4. **System Performance:** The dual Intel Xeon processors and 32GB RAM are designed for demanding tasks. Monitor system resources using Task Manager (Ctrl+Shift+Esc) if you experience performance issues.

5. MAINTENANCE

1. **Cleaning:**
 - Regularly clean the exterior of the workstation and monitors with a soft, dry, lint-free cloth.
 - Use compressed air to clear dust from vents and ports to ensure proper airflow and prevent overheating.
 - Do not use liquid cleaners directly on components; apply to a cloth first.
2. **Software Updates:**
 - Keep Windows 10 Professional updated by regularly checking for updates through "Settings > Update & Security > Windows Update."
 - Ensure graphics drivers (NVIDIA Quadro FX 3800) and other hardware drivers are kept current.
3. **Data Backup:** Regularly back up important data from both the SSD and HDD to an external drive or cloud storage to prevent data loss.
4. **System Health Check:** Periodically run system diagnostics and disk checks to maintain system health.

6. TROUBLESHOOTING

- **No Display on Monitors:**
 - Verify all power cables for monitors and workstation are securely connected.
 - Check all video cables between the workstation and monitors.
 - Ensure the correct input source is selected on each monitor.
 - If only one or some monitors are not displaying, try swapping cables or ports to isolate the issue.

- **System Slow Performance:**

- Check Task Manager for high CPU, RAM, or disk usage by specific applications.
- Ensure sufficient free space on the SSD (C: drive).
- Run a virus scan.
- Ensure Windows and drivers are up to date.

- **Unusual Noises from Workstation:**

- Loud fan noise may indicate overheating or a failing fan. Ensure vents are clear.
- Clicking or grinding noises from the hard drive (HDD) can indicate a potential drive failure. Back up data immediately and consider replacing the drive.

- **Peripheral Not Responding:**

- Try connecting the peripheral to a different USB port.
- Restart the workstation.
- Check device drivers in Device Manager.

7. SPECIFICATIONS

Feature	Detail
Brand	Dell
Series	Precision T5500
Item Model Number	T5500 WorkStation
Processor	2 x Intel Xeon Quad-Core (up to 3.33GHz)
RAM	32 GB DDR4 SDRAM
Primary Storage	500GB Solid State Drive (SSD)
Secondary Storage	4 TB HDD
Graphics Coprocessor	NVIDIA Quadro FX 3800 (Dedicated)
Operating System	Windows 10 Pro, Windows 7 Professional
Monitors Included	4 x 24-inch Monitors with Quad Stand
Max Screen Resolution	3840 x 2160
Item Weight	150 pounds
Product Dimensions	15 x 14 x 4.8 inches
Color	Black

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your vendor. Dell's official support resources can also be found on their website.

