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Lenovo ThinkPad P51 20HH000TUS

Lenovo ThinkPad P51 Mobile Workstation User Manual

Model: 20HH000TUS / TPSLR THINKPD P51-4

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1. INTRODUCTION

This manual provides essential information for the setup, operation, maintenance, and troubleshooting of your Lenovo ThinkPad P51 Mobile Workstation. Designed for demanding tasks, this workstation combines powerful performance with robust features to enhance your productivity.



Figure 1: Lenovo ThinkPad P51 Mobile Workstation. This image shows the laptop open, displaying the Windows 10 operating system desktop. The keyboard and trackpad are visible, along with the Lenovo logo below the screen.

The ThinkPad P51 is a high-performance mobile workstation featuring an Intel Core i7-7700HQ Quad-Core processor, 16GB DDR4 RAM, a 512GB PCIe NVMe SSD, and a 15.6-inch Full HD IPS display. It is equipped with an NVIDIA Quadro M1200M graphics card for professional applications. Its robust design and powerful components make it suitable for intensive computing tasks.

2. INITIAL SETUP

2.1 Unpacking and Inspection

Carefully remove all components from the packaging. Ensure the following items are present:

- Lenovo ThinkPad P51 Mobile Workstation
- AC Power Adapter and Power Cord
- Documentation (this manual, warranty information)

Inspect the workstation for any physical damage. If any damage is found or components are missing, contact your vendor immediately.

2.2 Connecting to Power

1. Connect the power cord to the AC power adapter.
2. Plug the AC power adapter into the power connector on the rear of the workstation.
3. Plug the power cord into a grounded electrical outlet.

It is recommended to fully charge the battery before initial use.

2.3 First Boot and Operating System Configuration

Upon first power-on, the workstation will guide you through the initial setup of Windows 10 Pro. Follow the on-screen prompts to:

- Select your region and language.
- Accept the license terms.
- Create a user account.
- Connect to a Wi-Fi network (if available).
- Complete Windows updates and driver installations. It is recommended to use Lenovo Vantage or official Lenovo support website for driver updates.

3. OPERATING YOUR THINKPAD P51

3.1 Power On/Off

- **Power On:** Press the power button located on the top right of the keyboard deck.
- **Power Off:** Click the Start button in Windows, then select Power > Shut down.
- **Sleep Mode:** Close the lid or click the Start button, then select Power > Sleep.

3.2 Keyboard and TrackPoint/Trackpad

The ThinkPad P51 features a full-sized keyboard with a numeric keypad. It includes both a TrackPoint (red pointing stick in the center of the keyboard) and a multi-touch trackpad for navigation.

- **TrackPoint:** Use the TrackPoint to move the cursor and the three buttons below the spacebar for left-click, right-click, and middle-click (for scrolling).
- **Trackpad:** Use the trackpad for multi-touch gestures, including scrolling, zooming, and switching applications.

3.3 Connecting External Devices

The ThinkPad P51 offers various ports for connecting peripherals:

- **USB Ports:** Connect USB devices such as external hard drives, keyboards, or mice. The P51 has 4 USB 2.0 ports.
- **Video Output:** Use the Mini DisplayPort 1.2a, HDMI 1.4b, or Thunderbolt 3 ports to connect external monitors or projectors.
- **Audio Jack:** Connect headphones or external speakers to the combined audio jack.
- **Ethernet Port:** Connect to a wired network using an Ethernet cable.
- **SD Card Reader:** Insert an SD card for data transfer.

4. MAINTENANCE AND CARE

4.1 Cleaning Your Workstation

- **Screen:** Use a soft, lint-free cloth slightly dampened with water or a screen cleaner. Do not spray liquid directly onto the screen.
- **Keyboard and Chassis:** Use a soft cloth dampened with a mild cleaning solution. Avoid excessive moisture.

Compressed air can be used to remove dust from between keys.

- **Ports:** Ensure ports are free of dust and debris. Use compressed air if necessary.

4.2 Battery Care

To maximize battery life and longevity:

- Avoid extreme temperatures.
- Do not fully discharge the battery frequently.
- If storing the laptop for an extended period, charge the battery to about 50-60% before storage.

4.3 Software Updates

Regularly update your operating system and drivers to ensure optimal performance and security. Use Windows Update for OS updates and Lenovo Vantage or the official Lenovo support website for driver and firmware updates.

5. TROUBLESHOOTING

5.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Workstation does not power on.	No power, discharged battery, or hardware issue.	Ensure AC adapter is properly connected and outlet is working. Try a different outlet. If battery is low, allow it to charge for a few minutes before attempting to power on.
Screen is blank or black.	Sleep mode, display settings, or hardware issue.	Press any key or move the mouse to wake from sleep. Check display cable if external monitor. Press Fn + F7 (or similar function key) to cycle display output.
Wi-Fi connection issues.	Wi-Fi adapter off, incorrect password, or router issue.	Ensure Wi-Fi is enabled in Windows settings. Verify Wi-Fi password. Restart your router and modem. Update Wi-Fi drivers.
System is slow or unresponsive.	Too many applications open, low disk space, or malware.	Close unnecessary applications. Check disk space and free up if needed. Run a full system scan with antivirus software. Consider restarting the workstation.

5.2 Performing a Hard Reset

If the workstation becomes completely unresponsive, you may need to perform a hard reset:

1. Disconnect the AC power adapter.
2. Press and hold the power button for 10-15 seconds until the workstation powers off.
3. Reconnect the AC power adapter and power on the workstation normally.

Note: A hard reset should only be used as a last resort as it may result in unsaved data loss.

6. TECHNICAL SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model	Lenovo ThinkPad P51 (20HH000TUS / TPSLR THINKPD P51-4)
Processor	Intel Core i7-7700HQ Quad-Core (2.8 GHz, up to 3.8 GHz with Turbo Boost)
RAM	16GB DDR4 2400 MHz SODIMM (Expandable)
Storage	512GB PCIe NVMe SSD
Display	15.6-inch Full HD (1920x1080) IPS Anti-Glare, LED-backlit
Graphics	NVIDIA Quadro M1200M with 4GB GDDR5 VRAM
Operating System	Windows 10 Pro
Ports	Mini DisplayPort 1.2a, HDMI 1.4b, Thunderbolt 3, 4x USB 2.0, Ethernet, Audio Jack, SD Card Reader
Wireless	Bluetooth, Wi-Fi
Dimensions (LxWxH)	9.88 x 3.05 x 1.2 inches (25.1 x 7.7 x 3.0 cm)
Weight	5.89 pounds (2.67 kg)
Battery	1 Lithium Ion battery (included)

7. WARRANTY AND SUPPORT

7.1 Product Warranty

Your Lenovo ThinkPad P51 Mobile Workstation typically comes with a standard manufacturer's warranty, which may include a 3-year depot warranty. Specific warranty terms and duration can vary by region and purchase agreement. Please refer to the warranty card included with your product or visit the official Lenovo support website for detailed warranty information and registration.

Keep your proof of purchase for warranty claims.

7.2 Technical Support

For technical assistance, driver downloads, or service requests, please contact Lenovo Support through the following channels:

- **Lenovo Support Website:** Visit support.lenovo.com for drivers, manuals, and troubleshooting guides.
- **Lenovo Vantage Software:** Use the pre-installed Lenovo Vantage application on your workstation for system updates, diagnostics, and support access.
- **Customer Service Hotline:** Refer to your regional Lenovo contact information for phone support.

When contacting support, please have your product model number (20HH000TUS / TPSLR THINKPD P51-4) and serial number ready.

