Lenovo ThinkPad P52

Lenovo ThinkPad P52 (2018) 15.6-inch Business Laptop Instruction Manual

Model: ThinkPad P52

1. Overview

The Lenovo ThinkPad P52 is a 15.6-inch business laptop designed for demanding professional tasks. It features powerful Intel Xeon processing and NVIDIA Quadro graphics, making it suitable for intensive workloads. This model is notable for being Lenovo's first VR-Ready certified 15-inch workstation.

2. KEY FEATURES

- **Processor:** Intel Xeon E-2176M (6 Cores, 2.7 / 4.4GHz, 12MB Cache, 2400MHz)

- **Memory:** 16GB DDR4 Memory

- **Storage:** 512GB SSD M.2 PCIe NVMe Opal2

- **Display:** 15.6 Inch Anti-glare FHD (1920x1080) IPS

- **Graphics:** NVIDIA Quadro P2000 (4GB)

- **Connectivity:** Intel 9560ac WiFi + Bluetooth 4.1

- **Security:** Fingerprint Reader

- **Operating System:** Windows 10 Professional 64-bit

- **Warranty:** 3-Year Warranty

3. PHYSICAL OVERVIEW

3.1. Exterior Design

The ThinkPad P52 features a robust and functional design, typical of the ThinkPad series. Its black chassis is built for durability and professional aesthetics.

Figure 3.1: Top view of the closed ThinkPad P52, highlighting its sleek profile.

Figure 3.2: Angled view of the closed ThinkPad P52, showing its sturdy build.

Figure 3.3: Bottom view of the ThinkPad P52, illustrating the ventilation system and battery compartment.

3.2. Ports and Connectors

The ThinkPad P52 offers a comprehensive selection of ports for versatile connectivity.

- **Rear Ports:** Ethernet, HDMI, USB-C (Thunderbolt 3 compatible).
- **Left Side Ports:** USB 3.0, USB-C, Headphone/Microphone Combo Jack.
- **Right Side Ports:** USB 3.0 (multiple), Mini DisplayPort, SD Card Reader.

Figure 3.4: Rear ports of the ThinkPad P52, including Ethernet and HDMI.

Figure 3.5: Left side ports of the ThinkPad P52, featuring USB and audio jacks.

Figure 3.6: Right side ports of the ThinkPad P52, including additional USB ports.

4. SETUP

4.1. Initial Power On

1. Unpack the laptop and all accessories from the box.

2. Connect the power adapter to the laptop's power port and then to a power outlet.

3. Open the laptop lid.

4. Press the power button, typically located on the side or top right of the keyboard deck.

5. Follow the on-screen instructions to complete the initial Windows 10 Pro setup, including language, region, network connection, and user account creation.

4.2. Connecting Peripherals

Utilize the available ports to connect external devices:

- **USB Devices:** Connect mice, keyboards, external drives, or other USB accessories to the USB 3.0 or USB-C ports.
- **External Displays:** Use the HDMI or Mini DisplayPort to connect to external monitors or projectors.
- **Network:** For wired internet, connect an Ethernet cable to the Ethernet port. For wireless, connect to a Wi-Fi network during initial setup or via Windows settings.

5. OPERATING THE THINKPAD P52

5.1. Keyboard and Touchpad

The ThinkPad P52 features a full-sized, backlit keyboard known for its tactile feedback and comfortable typing experience. The touchpad supports multi-touch gestures for navigation.

- **TrackPoint:** A red pointing stick located between the G, H, and B keys provides an alternative for cursor control. It works in conjunction with three dedicated buttons below the spacebar.
- **Function Keys:** Special function keys (F1-F12) provide quick access to system controls like volume, brightness, and communication features.

5.2. Display Usage

The 15.6-inch FHD IPS anti-glare display offers comfortable viewing angles and excellent contrast. Adjust brightness using the function keys (Fn + F5/F6) to suit your environment.

5.3. Audio and Webcam

The laptop is equipped with an HD webcam and integrated microphones for video conferencing. The audio system provides clear sound for multimedia and communication.

- **Webcam Privacy Shutter:** A physical shutter is available to cover the webcam for enhanced privacy when not in use.
- **Microphones:** Integrated microphones are designed to capture clear audio during calls.

6. MAINTENANCE

6.1. Cleaning

- **Screen:** Use a soft, lint-free cloth lightly dampened with water or a screen cleaner. Avoid harsh chemicals.
- **Keyboard and Chassis:** Use a soft cloth to wipe surfaces. For deeper cleaning, a can of compressed air can remove dust from between keys.

6.2. Software Updates

Regularly update your operating system, drivers, and applications to ensure optimal performance and security. Windows Update can be accessed through the Settings menu.

6.3. Battery Care

To maximize battery lifespan:

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

7. Troubleshooting

7.1. Common Issues and Solutions

- **No Power:** Ensure the power adapter is securely connected and the outlet is functional. Try a different power outlet.

- **Display Problems:** If the screen is blank, try connecting an external monitor to check if the issue is with the laptop's display. Adjust brightness settings.

- **Slow Performance:** Close unnecessary applications, check for malware, and ensure sufficient free storage space.

- **Connectivity Issues:** For Wi-Fi, restart your router and the laptop. For Bluetooth, ensure the device is paired correctly and within range.

- **Overheating:** Ensure ventilation vents are clear and the laptop is on a hard, flat surface. Reduce heavy workload if possible.

8. Specifications

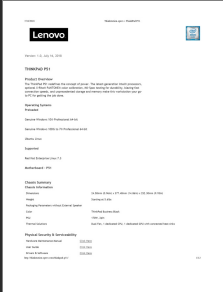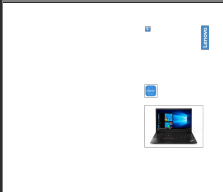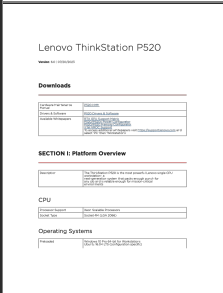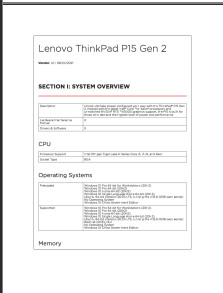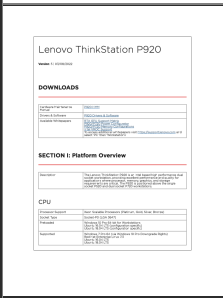| Feature	Detail
Standing Screen Display Size	15.6 Inches
Screen Resolution	1920 x 1080 pixels (FHD)
Processor	2.7 GHz Intel Xeon E-2176M
RAM	16 GB DDR4
Memory Speed	2400 MHz
Hard Drive	512 GB SSD M.2 PCIe NVMe Opal2
Graphics Coprocessor	NVIDIA Quadro P2000 (4 GB)
Wireless Type	802.11ac (Intel 9560ac)
Bluetooth	Bluetooth 4.1
Number of USB 3.0 Ports	3
Operating System	Windows 10 Pro
Item Weight	8.76 pounds
Product Dimensions	19 x 4 x 13 inches
Color	Black
Special Feature	Anti Glare Coating, Fingerprint Reader

9. What's in the Box

- Lenovo ThinkPad P52 Laptop

10. WARRANTY AND SUPPORT

The Lenovo ThinkPad P52 comes with a **3-Year Warranty**. For technical support, service, or warranty claims, please refer to the official Lenovo support channels or visit the Lenovo website for detailed information.

Related Documents - ThinkPad P52

[Lenovo ThinkPad P51 Technical Specifications and Overview](#)
Detailed technical specifications and product overview for the Lenovo ThinkPad P51 workstation, including processor, memory, storage, graphics, networking, and environmental information.

[Lenovo ThinkStation P3 Tiny: Setup Guide and Technical Specifications](#)
Comprehensive guide for the Lenovo ThinkStation P3 Tiny workstation, covering port configurations, expansion module options, and radio frequency compliance. Includes details on graphics, networking, and connectivity for professional use.

[Lenovo ThinkPad E580 (20KS001J++) Product Specifications](#)
Detailed product specifications for the Lenovo ThinkPad E580 laptop, including processor, graphics, memory, storage, display, ports, and operating system. Features Intel Core i5-8250U, 8GB RAM, 256GB SSD, and 15.6-inch FHD display.

[Lenovo ThinkStation P520 Technical Specifications](#)
Detailed specifications and platform overview for the Lenovo ThinkStation P520, a powerful single-CPU workstation designed for demanding professional tasks. Explore its CPU, memory, storage, and connectivity options.

[Lenovo ThinkPad P15 Gen 2 Technical Specifications](#)
Detailed technical specifications for the Lenovo ThinkPad P15 Gen 2 workstation laptop, covering system overview, supported components, CPU, memory, storage, display, I/O, audio, battery, BIOS, security, environmental, and manageability features.

[Lenovo ThinkStation P920 Technical Specifications and Overview](#)
Detailed technical specifications, platform overview, and component information for the Lenovo ThinkStation P920 high-performance workstation. Explore CPU, memory, storage, graphics, and connectivity options.