

Acer PT515-52-73L3

Acer Predator Triton 500 PT515-52-73L3 Gaming Laptop User Manual

Model: PT515-52-73L3

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your Acer Predator Triton 500 PT515-52-73L3 Gaming Laptop. Please read it thoroughly to ensure optimal performance and longevity of your device.

The Acer Predator Triton 500 PT515-52-73L3 is a high-performance gaming laptop designed for demanding tasks and immersive gaming experiences. It features a 10th Generation Intel Core i7-10750H processor, NVIDIA GeForce RTX 2070 SUPER graphics, a 15.6-inch Full HD display with a 300Hz refresh rate and NVIDIA G-SYNC technology, 16GB of DDR4 RAM, and a 512GB NVMe SSD.

2. SAFETY INFORMATION

- Do not expose the laptop to extreme temperatures, direct sunlight, or high humidity.
- Avoid placing heavy objects on the laptop.
- Use only the provided AC adapter and power cord.
- Keep liquids away from the device. In case of spills, immediately power off and disconnect the adapter.
- Do not attempt to disassemble or repair the laptop yourself. Refer to qualified service personnel.
- Ensure proper ventilation to prevent overheating, especially during intensive use.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Acer Predator Triton 500 PT515-52-73L3 Gaming Laptop
- AC Adapter
- Power Cord

4. PHYSICAL OVERVIEW

4.1. Front View



Figure 4.1: Front view of the Acer Predator Triton 500, showcasing the display with Predator branding, RGB backlit keyboard, and thin bezels.

4.2. Display Features



300Hz

Refresh Rate



Tear-free gameplay at a refresh rate
of 300Hz and 3ms overdrive response

Figure 4.2: The 15.6-inch Full HD (1920 x 1080) display features a 300Hz refresh rate and 3ms Overdrive Response Time, enhanced by NVIDIA G-SYNC technology for tear-free gameplay.

4.3. Keyboard and Touchpad



Per-key RGB backlit
keyboard with **TURBO** key
for instant overclocking.



Figure 4.3: The laptop features a per-key RGB backlit keyboard with customizable lighting and a dedicated 'Turbo' key for instant overclocking. The touchpad is located below the keyboard.

4.4. Ports and Connectors

MINI DISPLAYPORT

Supports 240Hz refresh rate
and NVIDIA® G-SYNC®

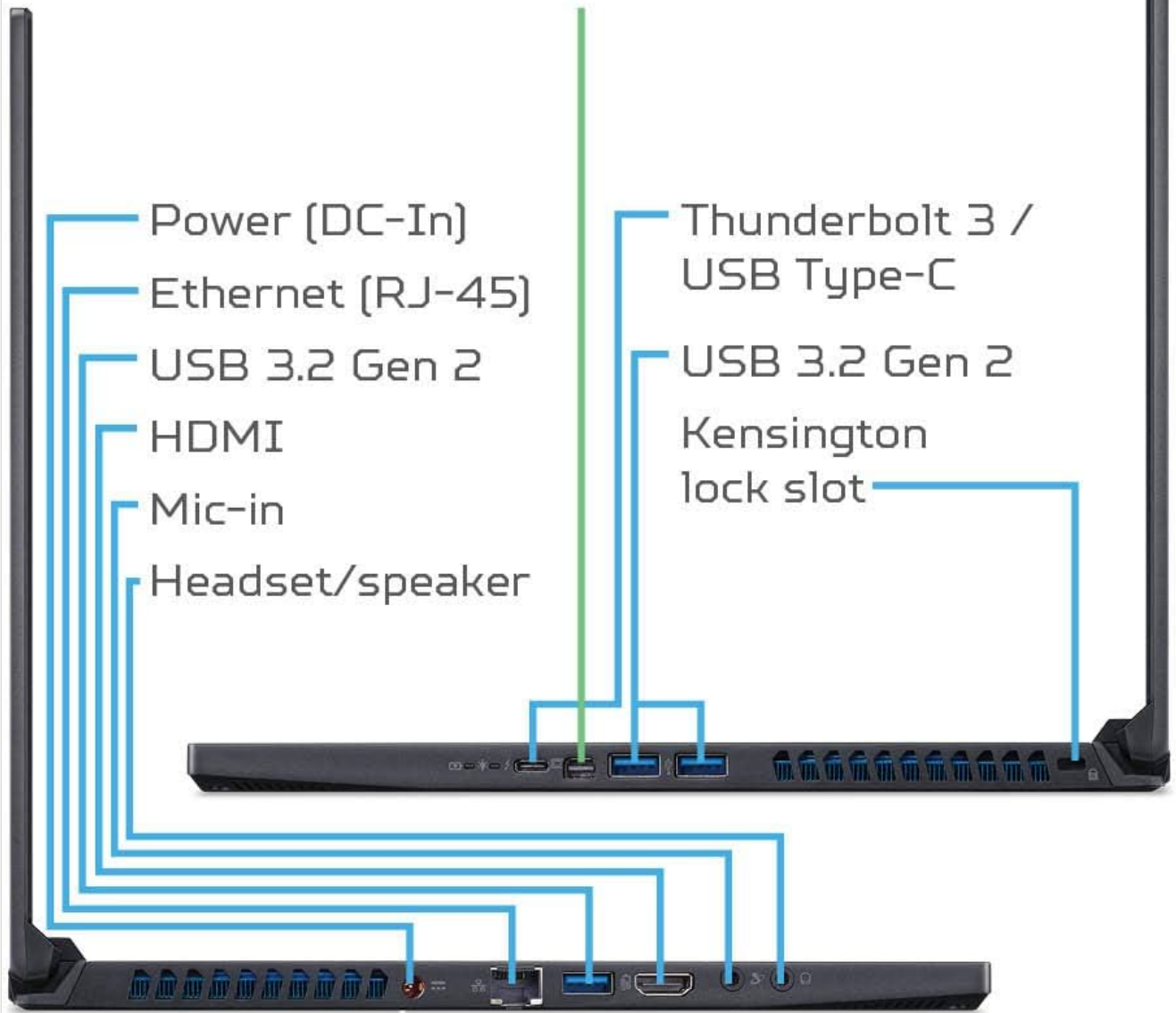


Figure 4.4: The laptop is equipped with a comprehensive selection of ports, including Power (DC-In), Ethernet (RJ-45), multiple USB 3.2 Gen 2 ports, HDMI, Mic-in, Headset/speaker, Thunderbolt 3 / USB Type-C, Mini DisplayPort, and a Kensington lock slot.

5. SETUP

5.1. Initial Power-On

1. Connect the AC adapter to the laptop's power port and then to a power outlet.
2. Open the laptop lid.
3. Press the power button, typically located above the keyboard or on the side.
4. Follow the on-screen instructions to complete the initial Windows 10 Home setup.

5.2. Connecting Peripherals

Connect your mouse, external keyboard, or other USB devices to the available USB 3.2 Gen 2 ports. For external displays, use the HDMI or Mini DisplayPort 1.4. The Thunderbolt 3 port supports full USB 3.1 Type-C functionality.

6. OPERATING

6.1. Power On/Off

- **Power On:** Press the power button.
- **Power Off:** Click the Start button, then Power > Shut down.
- **Sleep Mode:** Close the lid or click the Start button, then Power > Sleep.

6.2. Display Features

The 15.6-inch Full HD (1920 x 1080) IPS display offers a 300Hz refresh rate and 3ms Overdrive Response Time. NVIDIA G-SYNC technology synchronizes the display's refresh rate with the GPU, eliminating screen tearing and minimizing display stutter and input lag.

6.3. Keyboard Features

The per-key RGB backlit keyboard allows for customizable lighting effects. Use the PredatorSense software to personalize the lighting zones and effects. The 'Turbo' key can be used for instant CPU/GPU overclocking.

6.4. Performance Management with PredatorSense



Figure 6.4: The PredatorSense software provides comprehensive control over your laptop's performance, including fan speed adjustments (Auto, Max, Custom), monitoring CPU and GPU temperatures, and managing RGB lighting.

PredatorSense allows you to monitor system performance, adjust fan speeds, customize RGB lighting, and manage overclocking settings for optimal gaming and productivity. You can switch between different performance modes (e.g., Quiet, Default, Extreme) based on your needs.

6.5. Connectivity

- **Wireless:** Killer Double Shot Pro Wireless-AX 1650i 802.11ax Wi-Fi 6 for high-speed wireless internet.
- **Wired:** Killer Gaming Network E3100G 10/100/1000 Gigabit Ethernet LAN for stable wired connections.
- **Bluetooth:** Integrated Bluetooth for connecting wireless peripherals.

6.6. Audio

The laptop features DTS X: Ultra-Audio with optimized Bass, Loudness, and Speaker Protection, along with Acer True Harmony Technology and two built-in stereo speakers. Acer Purified.Voice technology with two built-in microphones enhances voice clarity for communication.

7. MAINTENANCE

7.1. Cleaning

- Use a soft, lint-free cloth to clean the screen and exterior.
- For stubborn smudges, slightly dampen the cloth with water or a screen cleaner.
- Use compressed air to clear dust from keyboard keys and ventilation grilles.

7.2. Software Updates

Regularly update your operating system (Windows 10 Home), graphics drivers (NVIDIA), and Acer-specific software (PredatorSense) to ensure optimal performance and security.

7.3. Storage Management

The laptop comes with a 512GB PCIe NVMe SSD. It includes two PCIe M.2 slots, with one slot available for easy storage upgrades. Regularly back up important data and manage disk space to maintain performance.

7.4. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. It is recommended to keep the laptop plugged in during intensive gaming sessions to ensure consistent power delivery and prevent performance throttling.

8. TROUBLESHOOTING

- **Laptop not powering on:** Ensure the AC adapter is securely connected and the power outlet is functional. Try a different outlet.
- **Overheating:** Ensure ventilation grilles are clear of obstructions. Use PredatorSense to increase fan speeds. Consider using a cooling pad for extended heavy use.
- **Display issues (tearing/stuttering):** Verify NVIDIA G-SYNC is enabled in NVIDIA Control Panel and PredatorSense. Ensure graphics drivers are up to date.
- **Poor battery life:** Adjust power settings in Windows to a more power-efficient mode. Reduce screen brightness. Close unnecessary background applications.
- **No sound:** Check volume levels in Windows and ensure speakers/headphones are properly connected. Update audio drivers.

9. SPECIFICATIONS

Feature	Detail
Processor	10th Generation Intel Core i7-10750H 6-Core (Up to 5.0GHz)
Graphics	Overclockable NVIDIA GeForce RTX 2070 SUPER with Max-Q Design & 8GB GDDR6 VRAM
Display	15.6" Full HD (1920 x 1080) IPS, 300Hz Refresh Rate, 3ms Overdrive, NVIDIA G-SYNC, 300nit Brightness, 100% sRGB
RAM	16GB DDR4 2933MHz
Storage	512GB PCIe NVMe SSD (2 x PCIe M.2 Slots, 1 Slot Available)
Operating System	Windows 10 Home
Keyboard	Per-key RGB Backlit Keyboard with Customizable Lighting

Wireless Connectivity	Killer Double Shot Pro Wireless-AX 1650i 802.11ax Wi-Fi 6
Wired Connectivity	Killer Gaming Network E3100G 10/100/1000 Gigabit Ethernet LAN
Ports	1x Thunderbolt 3 (Full USB 3.1 Type C), 3x USB 3.2 Gen 2 (1 with Power-off Charging), 1x HDMI 2.0, 1x Mini Display Port 1.4
Audio	DTS X: Ultra-Audio, Acer True Harmony Technology, Dual Stereo Speakers, Acer Purified.Voice
Battery Life	Up to 5.5 hours (average)
Weight	4.63 lbs (2.1 kg)
Dimensions (LxWxH)	14.11 x 10.04 x 0.7 inches

10. OFFICIAL PRODUCT VIDEOS

10.1. Predator Triton 500 PT515-52 360 Degree View

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This video provides a brief 360-degree view of the Acer Predator Triton 500 PT515-52, showcasing its design and various angles.

10.2. Full-Featured Gaming Laptop with RGB Keyboard

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This video highlights the full features of the Acer Predator Triton 500, emphasizing its RGB keyboard and overall gaming capabilities.

11. WARRANTY INFORMATION

Your Acer Predator Triton 500 PT515-52-73L3 Gaming Laptop is covered by a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official Acer support website for detailed terms and conditions.

- 2-Year Protection Plan (Optional)
- 4-Year Protection Plan (Optional)

12. SUPPORT




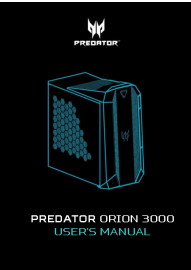

For further assistance, technical support, or to download the latest drivers and manuals, please visit the official Acer support website:

[Acer Support Website](#)

You can also find additional resources and contact information on the Acer brand store:

[Acer Store on Amazon](#)

Related Documents - PT515-52-73L3

 <p>Predator Orion 3000</p>	<p>Acer Predator Orion 3000 PO3-600 Gaming Desktop Specifications</p> <p>Detailed specifications for the Acer Predator Orion 3000 PO3-600 gaming desktop, featuring Intel Core i7 9th Gen processor, NVIDIA GeForce RTX 1660 Ti graphics, 16GB DDR4 RAM, 512GB SSD, and 1TB HDD.</p>
 <p>PREDATOR TRITON 500 USER'S MANUAL</p>	<p>Acer Predator Triton 500 User's Manual: Setup, Features, and Care</p> <p>Explore the Acer Predator Triton 500 gaming laptop with its official user's manual. Learn about setup, hardware, PredatorSense software, recovery, battery optimization, travel tips, and online security for an enhanced user experience.</p>
 <p>Aspire 5742/5742G/5742Z/5742ZG Series Service Guide</p>	<p>Acer Aspire 5742/5742G/5742Z/5742ZG Series Service Guide</p> <p>This service guide provides detailed technical information, system specifications, disassembly procedures, and troubleshooting steps for the Acer Aspire 5742, 5742G, 5742Z, and 5742ZG series laptops. It is intended for service professionals and covers hardware components, utilities, and repair guidance.</p>
 <p>PREDATOR ORION 3000 USER'S MANUAL</p>	<p>Acer Predator Orion 3000 User's Manual: Component Upgrade Guide</p> <p>This user's manual provides detailed instructions for upgrading components of the Acer Predator Orion 3000 gaming desktop, including system covers, storage, memory, and graphics cards, along with guidance on PredatorSense software.</p>
 <p>Acer LCD Monitor User Guide</p>	<p>Acer Predator X27 4K UHD Gaming Monitor User Guide</p> <p>This comprehensive user guide for the Acer Predator X27 4K UHD gaming LCD monitor covers safety, setup, hardware connections, OSD menu operation, feature settings, and troubleshooting.</p>

<p>Acer LCD Monitor User Guide</p>	<p>Acer LCD Monitor User Guide - XB273U NX</p> <p>Comprehensive user guide for the Acer XB273U NX LCD Monitor, covering safety instructions, setup, operation, OSD menu navigation, troubleshooting, and regulatory compliance.</p>
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