

ACEMAGIC TANK 03

ACEMAGIC Tank03 Gaming PC User Manual

Model: TANK 03

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your ACEMAGIC Tank03 Gaming PC. Please read this manual carefully before using the product to ensure optimal performance and longevity.

2. PACKAGE CONTENTS

Upon unboxing your ACEMAGIC Tank03 Gaming PC, please verify that all the following items are included:

- ACEMAGIC Tank03 Gaming PC Unit
- Power Adapter
- HDMI Cable
- User Manual (this document)

3. PRODUCT OVERVIEW

The ACEMAGIC Tank03 is a compact gaming desktop designed for high performance. Familiarize yourself with the various ports and features of your device.



Image: Front view of the ACEMAGIC Tank03 Gaming PC, showcasing its compact design and customizable RGB lighting on the front panel. The front ports include USB, SD card slot, and audio jack.



Image: Detailed diagram illustrating the front and rear ports of the ACEMAGIC Tank03. Front ports include USB 3.2 Gen2 Type-A, USB 4 (Type-C), 3.5mm Audio Jack, SD Card Slot, and Power Button. Rear ports include 3.5mm Audio Jack, DP1.4, 2.5G RJ45 Gigabit Ethernet Ports (x2), HDMI 2.0 (x2), DC IN, USB 3.2 Gen1 Type-A (x3), and USB 3.2 Gen2 Type-A.

4. SETUP

1. **Connect to Power:** Plug the power adapter into the DC IN port on the rear of the PC, then connect it to a power outlet.
2. **Connect Display:** Connect your monitor(s) to the HDMI or DisplayPort (DP) outputs on the rear of the PC. The Tank03 supports up to four displays simultaneously.
3. **Connect Peripherals:** Connect your keyboard, mouse, and other USB devices to the available USB ports.
4. **Connect to Network:** For wired internet, connect an Ethernet cable to one of the RJ45 ports. For wireless internet, ensure your Wi-Fi network is available and connect via the operating system settings after initial boot.
5. **Power On:** Press the power button on the front of the PC to turn it on.

5. OPERATING INSTRUCTIONS

5.1 Performance Modes

The ACEMAGIC Tank03 features multiple performance modes to optimize power consumption and performance based on your needs.



THREE SPEED MODE SWITCHING

The infographic illustrates the three performance modes of the ACEMAGIC Tank03. On the left, the front panel of the PC is shown with a glowing 'TANK' logo and various ports (USB, SD, Audio). Three circular icons (headphones, signal waves, and a red 'A') are positioned above the PC. On the right, three mode cards are listed:

- TANK Energy Saving**
Silent mode: Limits temperature and fan noise
- TANK Daily Use**
Balanced Mode: Achieve a balance between performance and noise
- TANK High Performance**
Beast Mode: Abandon all restraints, just to liberate performance

Image: Visual representation of the three performance modes: Energy Saving (silent mode, limits temperature and fan noise), Daily Use (balanced mode, balances performance and noise), and High Performance (beast mode, liberates full performance).

- **Energy Saving Mode:** Ideal for light tasks, reducing fan noise and power consumption.
- **Daily Use Mode:** A balanced mode for everyday computing, offering a good mix of performance and quiet operation.
- **High Performance Mode:** Maximizes CPU and GPU performance for demanding applications and gaming.

5.2 Display Setup

The Tank03 supports multiple display configurations, including UHD Quad Screen Display.



Image: An ACEMAGIC Tank03 Mini PC connected to a quad-monitor setup, demonstrating its capability to support multiple UHD displays simultaneously via HDMI 2.0 (x2), DP1.4, and Type-C ports.

You can connect up to four displays using a combination of the HDMI 2.0 (4K@60Hz), DP1.4 (8K@60Hz), and USB4 Type-C (8K@60Hz) ports.

5.3 RGB Lighting Control

The front panel features customizable RGB lighting. Control modes typically include AUTO, ON/OFF,

Rainbow, Breathing, and Color Cycle. Refer to your operating system's pre-installed software or the manufacturer's website for specific lighting control applications.

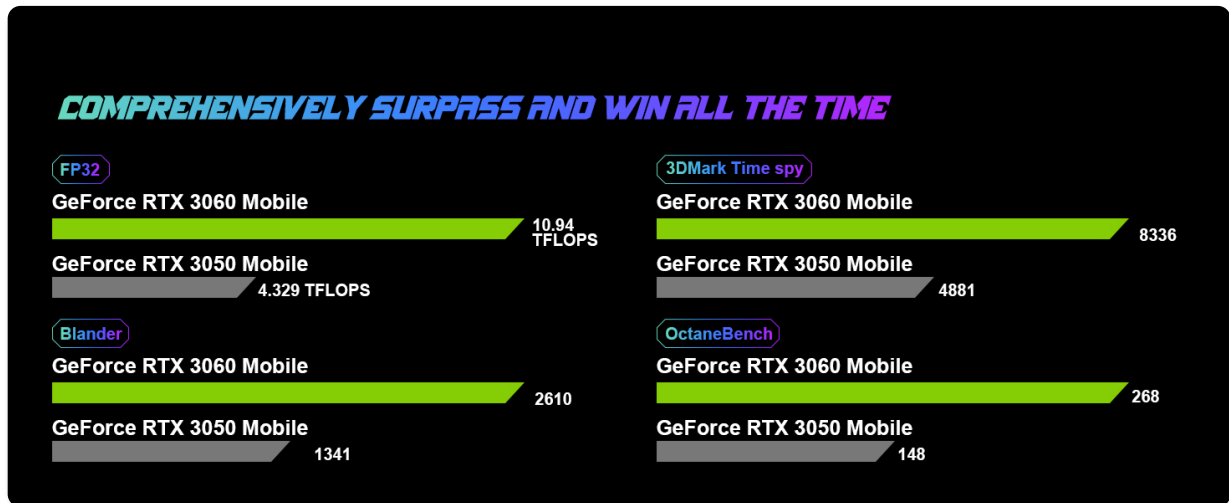


Image: The ACEMAGIC Tank03 Mini PC on a desk next to a keyboard and mouse, illustrating various RGB lighting modes such as Auto, On/Off, Rainbow, Breathing, and Color Cycle.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ACEMAGIC Tank03 PC, especially its cooling system.

6.1 Cooling System

The Tank03 features a robust cooling system with triple fans and heat pipes to manage thermal output from the CPU, GPU, and DDR memory.

No need to be HOT, I'll be COOL

- CPU Heat Dissipation:** It adopts dual D8 heat pipes and O-shaped layout to effectively reduce noise and improve heat dissipation efficiency.
- GPU Heat Dissipation:** Using 5 D5 heat pipes, large-size axial flow fan, super wind power, fast heat dissipation.
- DDR Heat Dissipation:** Increases external airflow, speeds up internal heat dissipation, and enhances heat dissipation by 45%.



Image: An exploded view diagram of the ACEMAGIC Tank03's internal cooling system, highlighting the CPU Fan, GPU Fan, and DDR Fan. It explains that the CPU heat dissipation uses dual D8 heat pipes, GPU heat dissipation uses 5 D5 heat pipes and a large-axial fan, and DDR heat dissipation increases external airflow by 45%.

- **Dust Removal:** Regularly clean the air vents and fan grilles to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air for best results.
- **Ventilation:** Ensure the PC is placed in a well-ventilated area, away from obstructions that could block airflow.
- **Temperature Monitoring:** If you notice unusual fan noise or performance degradation, monitor the system temperatures using appropriate software.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your ACEMAGIC Tank03 PC.

- **No Power:**
 - Ensure the power adapter is securely connected to both the PC and a working power outlet.
 - Test the power outlet with another device.
- **No Display:**

- Verify that the monitor is powered on and the correct input source is selected.
- Check that the HDMI/DP cable is securely connected to both the PC and the monitor.
- Try a different display cable or monitor if available.

- **System Freezes or Crashes:**

- Ensure the PC has adequate ventilation and is not overheating.
- Update graphics drivers and operating system.
- Run a diagnostic tool to check for hardware issues.

- **Poor Performance:**

- Switch to High Performance mode (refer to Section 5.1).
- Close unnecessary background applications.
- Ensure drivers are up to date.

For persistent issues, please contact ACEMAGIC customer support.

8. SPECIFICATIONS

Detailed technical specifications for the ACEMAGIC Tank03 Gaming PC.

GeForce RTX 3060
A winning platform for gamers and creators

CUDA 3840 CUDA Core	1.28 GHz Base Frequency	1.70 GHz Acceleration frequency	12GB GDDR6 Video memory
TDP 80W Power Consumption	192 bits Memory bit width	2nd Gen RT Core	3rd Gen Tensor Cores

Image: A graphic detailing the specifications of the NVIDIA GeForce RTX 3060, including 3840 CUDA Cores, 1.28 GHz Base Frequency, 1.70 GHz Acceleration Frequency, 12GB GDDR6 Video Memory, 80W Power Consumption (TDP), 192 bits Memory Bit Width, 2nd Gen RT Core, and 3rd Gen Tensor Cores.

Feature	Specification
Processor	Intel Core i7-12700H (2.3 GHz, up to 4.7GHz)
Graphics Coprocessor	NVIDIA GeForce RTX 3060 12GB
RAM	16GB DDR5 (4800 MT/s)
Storage	1TB NVMe SSD (M.2 2280 PCIe 3.0)
Max RAM Support	Up to 64GB (2x32GB)
Max Storage Support	Up to 4TB NVMe SSD
Operating System	OS (Pre-installed)
Wireless Connectivity	Wi-Fi 6 (802.11ax), Bluetooth 5.2

Feature	Specification
Wired Connectivity	2x 2.5G RJ45 Gigabit Ethernet
Video Output	2x HDMI 2.0 (4K@60Hz), 1x DP1.4 (8K@60Hz), 1x USB4 Type-C (8K@60Hz)
USB Ports (Front)	1x USB 3.2 Gen2 Type-A, 1x USB4 Type-C
USB Ports (Rear)	3x USB 3.2 Gen1 Type-A, 1x USB 3.2 Gen2 Type-A
Audio Ports	2x 3.5mm Audio Jack (Front & Rear)
Card Reader	SD Card Slot
Dimensions (LxWxH)	6.56 x 6.57 x 6.33 inches (166.7 x 166.9 x 160.9 mm)
Item Weight	8.71 pounds (2 KG)

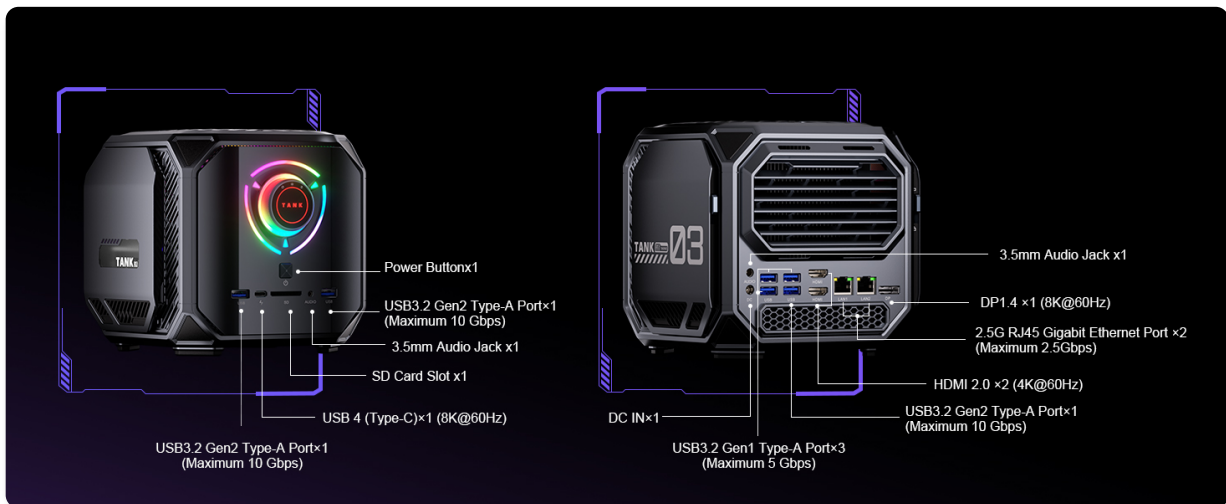


Image: A diagram illustrating the memory and storage capabilities of the ACEMAGIC Tank03, showing support for 16GB DDR5 (expandable to 64GB) and M.2 2280 1TB NVMe SSD (expandable to 4TB). It also indicates an SD Card Slot and no HDD expansion.

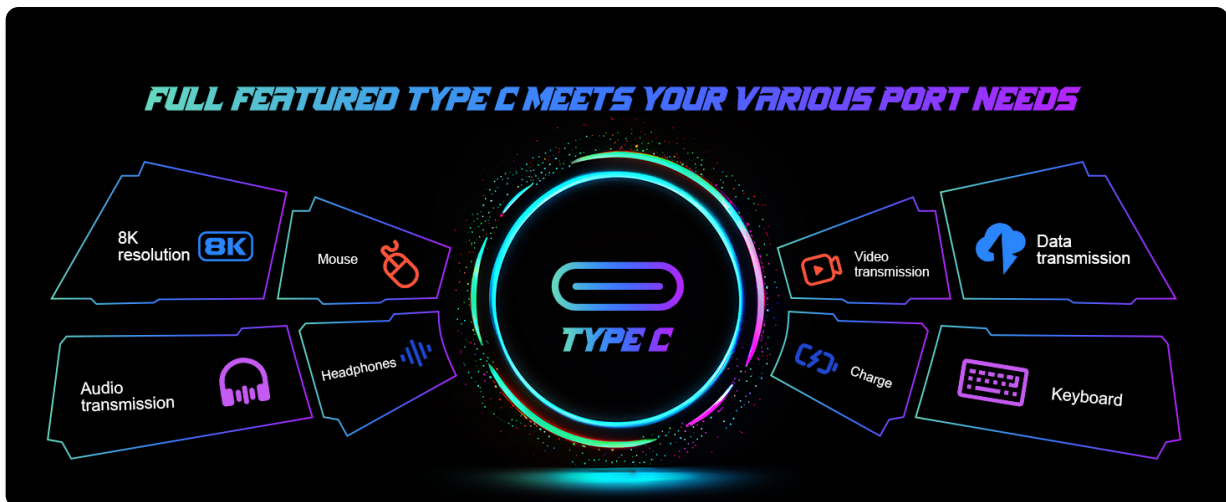


Image: The ACEMAGIC Tank03 Mini PC shown next to a basketball and a standard desktop tower for size comparison, with its dimensions (166.7 x 166.9 x 160.9 mm) and weight (2 KG) clearly indicated.

9. WARRANTY AND SUPPORT

ACEMAGIC is committed to providing high-quality products and excellent customer service.

- **Warranty:** Your ACEMAGIC Tank03 PC comes with a 12-month warranty.
- **Lifetime Technical Support:** ACEMAGIC offers lifetime technical support for its products.
- **Customer Service:** For any inquiries or support needs, please contact ACEMAGIC customer service.

Contact Information:

- **Support Email:** service@acemagicians.com
- **US Phone:** +1 800 908 1980

You can also log in to your Amazon buyer account, find your order, and click "Get Help" for assistance.