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## GAMEMAX N90 BG

# GAMEMAX N90 BG ATX PC Case User Manual

Model: N90 BG

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your GAMEMAX N90 BG ATX PC Case. The N90 BG features a modular dual-chamber design, a 512-LED matrix display, and panoramic curved glass. It is designed for BTF motherboards, offering a cable-free interior, efficient 270° cooling, and includes six ARGB PWM fans. Please read this manual thoroughly before beginning assembly to ensure proper setup and optimal performance.



Figure 1: Front-side view of the GAMEMAX N90 BG ATX PC Case, showcasing its panoramic curved glass, internal components, and the integrated LED display.

## 2. PACKAGE CONTENTS

Verify that all components are present before proceeding with the installation:

- GAMEMAX N90 BG ATX PC Case
- Accessory box (screws, standoffs, cable ties)
- Six pre-installed ARGB PWM fans
- User Manual (this document)

### 3. SETUP AND INSTALLATION

Follow these steps for proper assembly of your PC components within the GAMEMAX N90 BG case.

#### 3.1. Preparing the Case

1. **Unpacking:** Carefully remove the case from its packaging.
2. **Panel Removal:** The panoramic curved glass and side panels can be removed for easier access. Refer to Figure 2 for an interior view.



Figure 2: Interior view of the GAMEMAX N90 BG case, highlighting the spacious motherboard tray and fan mounting locations.



Figure 3: Side view of the case with the panel removed, providing access to the internal structure for component installation.

### 3.2. Motherboard Installation

The N90 BG supports ATX motherboards, including BTF (Back-To-the-Future) motherboards for a cable-free aesthetic. Install the necessary standoffs for your motherboard size, then carefully place the motherboard and secure it with screws.



Figure 4: Internal view demonstrating potential component placement and cable routing paths.

### 3.3. Power Supply Installation

The case features a bottom mount for the power supply. Install your power supply unit (PSU) into the designated compartment at the bottom of the case and secure it with screws from the rear.







Figure 5: Rear view of the case, illustrating the power supply mounting area and expansion slots.

### 3.4. Storage Drive Installation

Utilize the available drive bays for 2.5-inch SSDs or 3.5-inch HDDs. Refer to the accessory box for specific mounting hardware.

### 3.5. Fan and Radiator Installation

The case comes with six pre-installed ARGB PWM fans for efficient 270° cooling. Additional fans or radiators can be mounted in various positions (top, side, rear) as needed. Ensure proper airflow direction for optimal cooling.





Figure 6: Top-down interior view, showing available mounting points for additional fans or liquid cooling radiators.

### **3.6. Cable Management**

The dual-chamber design and BTF motherboard compatibility facilitate excellent cable management, allowing for a clean, cable-free interior. Route all cables through the designated cutouts and secure them using the provided cable ties in the rear chamber.



Figure 7: Side view of the case, illustrating the solid panel that conceals the cable management area.

## 4. OPERATING INSTRUCTIONS

### 4.1. Powering On

After all components are installed and cables are connected, close all panels. Connect the power cable to your PSU and press the power button located on the front panel of the case.

### 4.2. 512-LED Matrix Display

The integrated 512-LED matrix display on the front panel can be customized to show various information or patterns. Refer to your motherboard's software or the GAMEMAX utility (if applicable) for configuration options.

### 4.3. ARGB PWM Fans

The six pre-installed ARGB PWM fans are connected to a controller or directly to your motherboard. Fan speed and RGB lighting can typically be controlled via motherboard software (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion) or a dedicated fan controller.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your PC case.

- **Dust Filters:** Periodically clean the dust filters located on the intake areas of the case. Gently remove them and clean with compressed air or water (ensure they are completely dry before reinstallation).
- **Exterior Cleaning:** Wipe the exterior surfaces, including the panoramic curved glass, with a soft, damp cloth. Avoid abrasive cleaners.
- **Interior Cleaning:** Use compressed air to remove dust from internal components and fans. Ensure the system is powered off and unplugged before cleaning.

## 6. TROUBLESHOOTING

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If you encounter issues, refer to the following common troubleshooting steps:

- **No Power:**
  - Ensure the PSU is switched on and properly connected to the wall outlet.
  - Verify all power cables (24-pin ATX, CPU, GPU) are securely connected to the motherboard and components.
  - Check the front panel power switch connection to the motherboard.
- **Fans Not Spinning / LEDs Not Lighting Up:**
  - Confirm fan and ARGB cables are correctly connected to the motherboard headers or fan controller.
  - Check motherboard BIOS/UEFI settings or software for fan and RGB control.
- **Display Issues:**
  - Ensure your monitor is connected to the graphics card, not the motherboard's integrated graphics (unless using integrated graphics).
  - Verify the graphics card is properly seated in its PCIe slot and has adequate power.

For further assistance, consult your motherboard manual or the GAMEMAX support resources.

## 7. SPECIFICATIONS

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Feature	Specification
Brand	GAMEMAX
Model Name	GAMEMAX N90 BG
Item Model Number	N90 BG
Motherboard Compatibility	ATX

Case Type	Mid Tower
Color	Black
Material	Glass, ABS Plastic
Product Dimensions (LxWxH)	17.28 x 9.65 x 20.87 inches
Item Weight	28.5 pounds (12.95 Kilograms)
Number of USB 3.0 Ports	1
Power Supply Mounting Type	Bottom Mount
Cooling Method	Air (with 6 pre-installed ARGB PWM fans)
Recommended Uses	Gaming

## 8. WARRANTY AND SUPPORT

GAMEMAX stands behind the quality of its products. While specific warranty details may vary by region, GAMEMAX products are designed for reliability and performance.

For technical support, warranty claims, or further inquiries, please visit the official GAMEMAX store or contact their customer service. You can find more information and support resources at the [GAMEMAX Store on Amazon](#).