GPD GPD Win Mini 2024

GPD WIN Mini Handheld Game Console User Manual

Model: GPD Win Mini 2024 (8840U/32G/1T)

1. INTRODUCTION

Welcome to the user manual for your GPD WIN Mini Handheld Game Console. This document provides essential information for setting up, operating, maintaining, and troubleshooting your device. Please read this manual thoroughly to ensure proper usage and to maximize your gaming experience.

Figure 1.1: GPD WIN Mini Handheld Game Console in open position, showcasing the display, gamepad controls, and keyboard.

2. PRODUCT FEATURES

The GPD WIN Mini is a compact handheld gaming PC designed for portability and performance. Key features include:

- **Compact Design:** Weighing approximately 520g with dimensions of 168×109×26mm, featuring a classic clamshell design for portability.
- **Advanced Motion Sensing:** Integrated 3-axis gravity sensing and 3-axis gyroscope for intuitive in-game control through hand movements.
- **High-Fidelity Audio:** Equipped with AAC stereo speakers and support for DTS:X Ultra sound effects, providing simulated 7.1 channel surround sound via headphones and speakers.
- **Precision Controls:** Built-in Hall effect joysticks with a sinking design, supporting L3/R3 pressing, offering super-linear response and no dead zones for accurate input.
- **Extended Battery Life:** Features a 3.87V ultra-high-density polymer lithium battery with a 44.24Wh capacity, designed for extended usage.

Figure 2.1: Overview of key hardware and software features, including the AMD Ryzen 7 8840U processor, backlit keyboard, Windows 11 Home operating system, ergonomic grip, Oculink interface, and 7-inch LTPS high-refresh display.

Figure 2.2: Detailed component features, highlighting the Hall Dual 3D Joystick, microSD Card Slot, USB4 Port, M.2 2230 SSD, AAC Hyper-Linear Dual Speakers, and the 44.24Wh Polymer Lithium Battery.

3. Device Layout and Controls

3.1. Port and Component Identification

Figure 3.1: Diagram illustrating the various ports and components of the GPD WIN Mini.

1. Programmable Macro Keys
2. Speaker
3. BIOS Flash Hole
4. Type-C (USB4) Port
5. Charging Indicator Light
6. Full Function USB Type-C Port
7. Exhaust Vent
8. Gamepad / Mouse Toggle Key
9. Combo Audio Jack
10. microSD Card Slot
11. USB A Port
12. Speaker
13. Programmable Macro Keys

3.2. Gamepad Controls

The GPD WIN Mini features integrated gamepad controls for an optimized gaming experience.

Figure 3.2: Close-up view of the left-side gamepad controls, including the Hall effect joystick and directional pad.

Figure 3.3: Illustrates the ergonomic grip and natural hand placement during gameplay, utilizing the integrated gamepad controls.

Figure 3.4: The L1 and L2 trigger buttons are designed to be removable, allowing for customization or replacement.

3.3. Keyboard and Touchpad

The device includes a QWERTY keyboard and a touchpad for standard input.

Figure 3.5: The full QWERTY keyboard and central touchpad, designed for efficient text input and navigation.

4. SETUP

4.1. Initial Power On

1. Ensure the device is fully charged before first use.
2. Press and hold the power button (typically located on the side or top edge) until the screen illuminates.
3. Follow the on-screen prompts to complete the initial Windows 11 setup, including language selection, network connection, and user account creation.

4.2. Charging the Device

To charge your GPD WIN Mini, use the provided power adapter and connect it to one of the USB Type-C ports (specifically the USB4 port or the Full Function USB Type-C port).

Figure 4.1: The device being charged via a 65W power adapter connected to a USB-C port.

- Connect the USB Type-C cable to the device and the power adapter.
- Plug the power adapter into a wall outlet.
- The charging indicator light will illuminate to confirm charging is in progress.
- A full charge typically takes several hours.

5. OPERATING INSTRUCTIONS

5.1. Display Features

The GPD WIN Mini features a 7-inch LTPS display with advanced visual capabilities.

Figure 5.1: Key display specifications, including LTPS technology, variable refresh rates (60Hz/120Hz), 100% sRGB color gamut, 500nit brightness, DC Dimming, Victus Corning Gorilla Glass protection, 314 PPI Retina Display, and 10-point touch functionality.

- **Refresh Rate:** Supports 60Hz and 120Hz refresh rates. Adjust this in Windows display settings for optimal performance or battery life.
- **Touchscreen:** The 10-point touch display allows for intuitive navigation within Windows and compatible applications.
- **Brightness:** Adjust screen brightness via Windows settings or dedicated function keys for comfortable viewing in various environments.

5.2. Windows 11 Operating System

The device runs on Windows 11 Home 64-bit, providing a full desktop operating system experience. Familiarize yourself with Windows 11 navigation, settings, and application management.

- **Steam Client:** A built-in Steam client and optimization tools are included for an enhanced gaming experience.
- **Updates:** Regularly check for Windows updates to ensure system stability and security.

5.3. Gaming

Utilize the integrated gamepad controls for gaming. The device supports a wide range of PC games compatible with Windows 11.

- **Gamepad/Mouse Toggle:** Use the dedicated Gamepad/Mouse Toggle key to switch between gamepad input and mouse emulation modes as needed for different applications or games.
- **Programmable Macro Keys:** Configure the programmable macro keys (1 and 13 in Figure 3.1) for custom shortcuts or in-game actions. Refer to the device's software utility for configuration options.
- **Gyroscope:** Some games may utilize the 6-axis gyroscope for motion-based controls. Ensure this feature is enabled and calibrated in game settings if applicable.

6. MAINTENANCE

6.1. Cleaning

- Use a soft, lint-free cloth to clean the screen and exterior surfaces.
- For stubborn marks, slightly dampen the cloth with water or a screen-cleaning solution. Avoid harsh chemicals.
- Keep the exhaust vents clear of dust and debris to ensure proper cooling. Use compressed air if necessary.

6.2. Battery Care

- Avoid fully discharging the battery frequently.
- Store the device in a cool, dry place if not used for extended periods, ideally with the battery charged to around 50-70%.
- Use only the original or certified compatible charging accessories.

7. TROUBLESHOOTING

7.1. Common Issues and Solutions

- **Device does not power on:** Ensure the battery is charged. Connect the charger and attempt to power on again. If unresponsive, perform a hard reset by holding the power button for 10-15 seconds.
- **Screen is blank or flickering:** Check display settings in Windows. If the issue persists, try updating graphics drivers.
- **Gamepad controls not responding:** Ensure the Gamepad/Mouse Toggle key is in the correct mode. Check for driver updates or recalibrate controls in Windows or game settings.
- **Slow performance:** Close unnecessary background applications. Check for system updates. Ensure adequate ventilation to prevent thermal throttling.
- **Charging issues:** Verify the charger and cable are properly connected and undamaged. Try a different compatible USB Type-C port or charger if available.

8. SPECIFICATIONS

The following table outlines the technical specifications for the GPD WIN Mini Handheld Game Console (Model: GPD Win Mini 2024, 8840U/32G/1T).

Feature	Specification
Model Number	GPD Win Mini 2024
Processor	AMD Ryzen 7 8840U
RAM	32GB
Storage	1TB M.2 NVMe SSD
Operating System	Windows 11 Home 64-bit
Display	7-inch LTPS Touchscreen, 60Hz/120Hz, 1080P Resolution, 314 PPI
Graphics	AMD Radeon 780M
Battery	44.24Wh Polymer Lithium Battery (3.87V)
Connectivity	USB4, Full Function USB Type-C, USB-A, microSD Card Slot
Audio	AAC Hyper-Linear Dual Speakers, DTS:X Ultra support, Combo Audio Jack
Controls	Hall Dual 3D Joysticks, L/R Linear Analog Trigger Buttons, 6-Axis Gyroscope, QWERTY Keyboard, Touchpad, Programmable Macro Keys
Dimensions	168 × 109 × 26 mm
Weight	Approximately 520g (1.15 lbs)

9. WARRANTY AND SUPPORT

9.1. Warranty Information

Please refer to the warranty card included with your product packaging for detailed warranty terms and conditions. The warranty typically covers manufacturing defects for a specified period from the date of purchase.

9.2. Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact GPD customer support through their official website or the contact information provided in your product documentation.

Related Documents - **GPD Win Mini 2024**

[GPD WIN Mini (2024) User Manual](#)
Comprehensive user manual for the GPD WIN Mini (2024) handheld gaming PC, detailing its features, interfaces, specifications, operation, and warranty information.

	[GPD WIN 4 User Manual](#) This user manual provides detailed information and instructions for the GPD WIN 4 handheld gaming device, covering its features, interfaces, specifications, and troubleshooting.
	[GPD WIN Mini User Manual](#) Comprehensive user manual for the GPD WIN Mini handheld gaming and computing device, detailing specifications, ports, controls, charging, keyboard functions, warranty, and FCC compliance.
	[GPD DUO User Manual: Setup, Operation, and Specifications](#) Comprehensive user manual for the GPD DUO handheld gaming device. Learn how to set up, operate, troubleshoot, and get the most out of your GPD DUO. Includes specifications and safety information.
	[GPD WIN 5 Smart Dock: User Manual & Port Guide](#) Comprehensive guide to the GPD WIN 5 Smart Dock, detailing its ports, charging capabilities, and connection diagrams. Learn how to connect your GPD WIN 5 and external batteries.
	[GPD G1620-01 Tablet Computer User Manual](#) User manual for the GPD G1620-01 tablet computer, detailing console and button functions, gamepad modules, charging, technical specifications, and battery information.