

ASUS ROG Xbox Ally Z2

ASUS ROG Xbox Ally Z2 - 2025 Gaming Handheld Instruction Manual



1. INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your ASUS ROG Xbox Ally Z2 - 2025 gaming handheld. The ROG Xbox Ally Z2 combines the versatility of Windows with the robust design of ROG and the gaming ecosystem of Xbox, offering a portable and powerful gaming experience.



Image 1.1: The ASUS ROG Xbox Ally Z2 - 2025 gaming handheld.

2. WHAT'S IN THE BOX

Verify that all items are present in the packaging:

- ASUS ROG Xbox Ally Z2 - 2025 Handheld (Model: RC73YA-XB_ALLY.Z2A.16)
- Power Cord
- User Guide

Play all your games

Experience the latest PC titles fueled by the power of Windows in the ROG Xbox Ally.



Image 2.1: Included items: the handheld device, power cord, and user guide.

3. DEVICE OVERVIEW

The ROG Xbox Ally Z2 features a 7-inch Full HD 120Hz touchscreen display and an ergonomic design inspired by Xbox Wireless Controllers for comfortable extended play sessions.

3.1 Front View



Image 3.1: The front of the device showing the screen, joysticks, D-pad, and action buttons.

3.2 Rear View



Image 3.2: The back of the device, highlighting the textured grips and ventilation.

3.3 Top and Side Views

The top of the device includes essential ports and controls, while the sides feature comfortable grips.



Image 3.3: Top view, displaying the power button, volume controls, USB-C ports, and headphone jack.

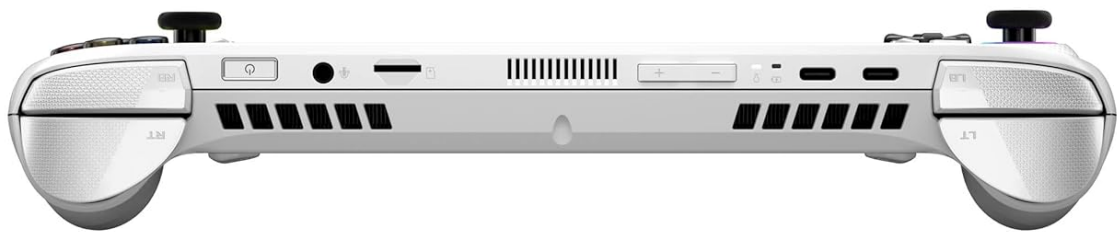


Image 3.4: Left side view, showing the ergonomic grip.

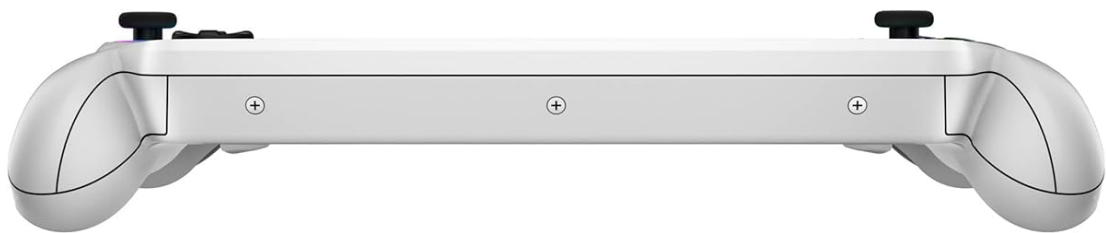


Image 3.5: Right side view, showing the ergonomic grip.

4. INITIAL SETUP

To begin using your ROG Xbox Ally Z2, follow these steps:

1. **Power On:** Press and hold the power button located on the top edge of the device until the screen illuminates.
2. **Initial Windows Configuration:** Follow the on-screen prompts to complete the Windows 11 setup. This includes selecting your language, region, and connecting to a Wi-Fi network.
3. **Xbox Account Login:** Log in with your Microsoft/Xbox account to access your game library and services.
4. **Software Updates:** Ensure your device's operating system and drivers are up to date for optimal performance. Access the Armoury Crate SE for system updates.

5. OPERATING YOUR DEVICE

The ROG Xbox Ally Z2 is designed for intuitive gaming and navigation.

5.1 Xbox Full Screen Experience

The device boots directly into an Xbox full screen experience, providing a console-like interface for easy game access.

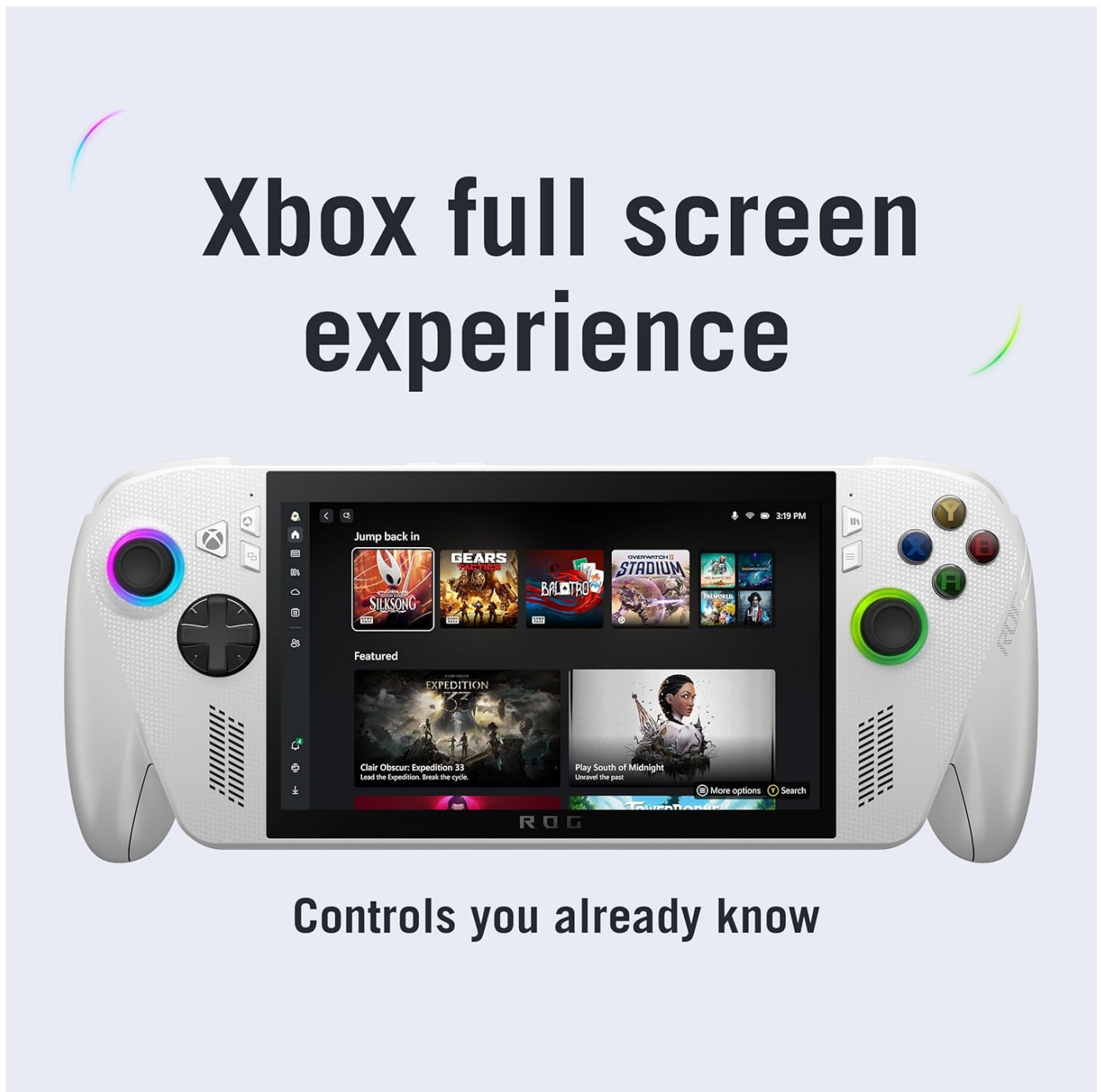


Image 5.1: The Xbox full screen interface, optimized for handheld use.

5.2 Xbox Button and Game Bar

A dedicated Xbox button allows for instant access to the Xbox Game Bar, enabling quick launches of games, performance adjustments, and other settings without exiting your current application.

All access. One Xbox button.



One press to unlock Game Bar and Command Center

Image 5.2: The Xbox button on the device, providing one-tap access to the Game Bar and Command Center.

5.3 Multi-Platform Game Access

The ROG Xbox Ally Z2 supports a wide range of PC game launchers, including Xbox Game Pass, Steam, Epic Games, and more, allowing you to play your entire PC game library.

Access ALL Your Games, Anywhere

The ROG Xbox Ally is a full Windows 11 PC with a **true console experience**. That means you can **play everything, from any launcher**, without workarounds. This is true PC gaming freedom in your hands.

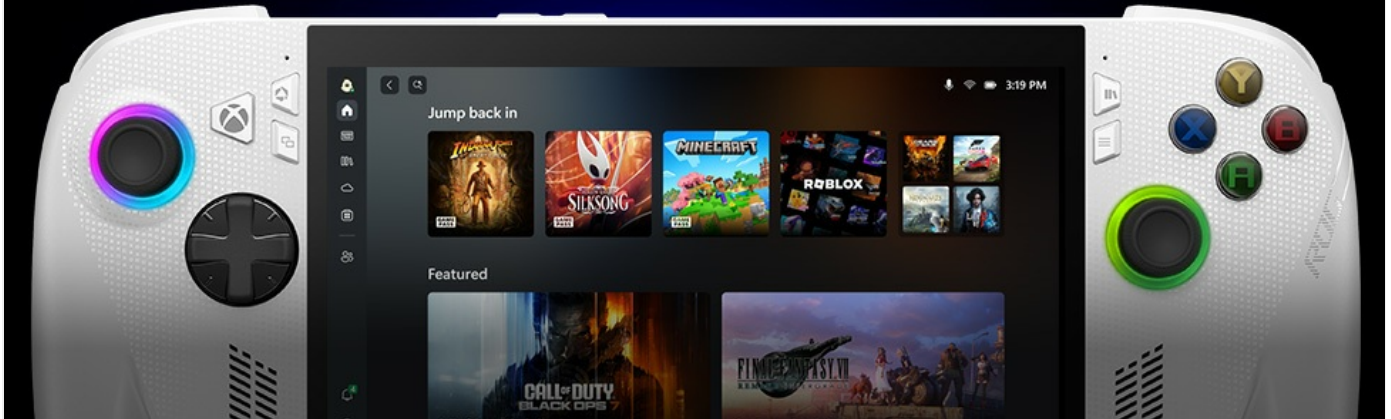
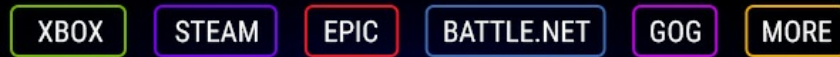


Image 5.3: Access to multiple game launchers like Xbox, Steam, Epic Games, and Battle.net.

5.4 Armoury Crate SE

Armoury Crate SE is the central hub for managing your device settings, performance modes, and game profiles. It allows you to customize your gaming experience.

- **Operating Modes:** Switch between Windows, Silent, Performance, and Turbo modes to balance power consumption and performance.
- **Game Profiles:** Create custom profiles for individual games to optimize settings.
- **System Monitoring:** Monitor real-time performance metrics.

6. KEY FEATURES

The ROG Xbox Ally Z2 is engineered with several features to enhance your portable gaming.

6.1 Performance

Powered by the AMD Ryzen™ Z2 A processor, 16GB of LPDDR5 6400MHz RAM, and a 512GB M.2 2280 SSD, the device delivers smooth and responsive gameplay for a wide range of titles.

Smart power. Longer play.

AMD Ryzen™ Z2 A Processor

16GB	512GB
LPDDR5 6400MHz	M.2 2280
Memory	SSD

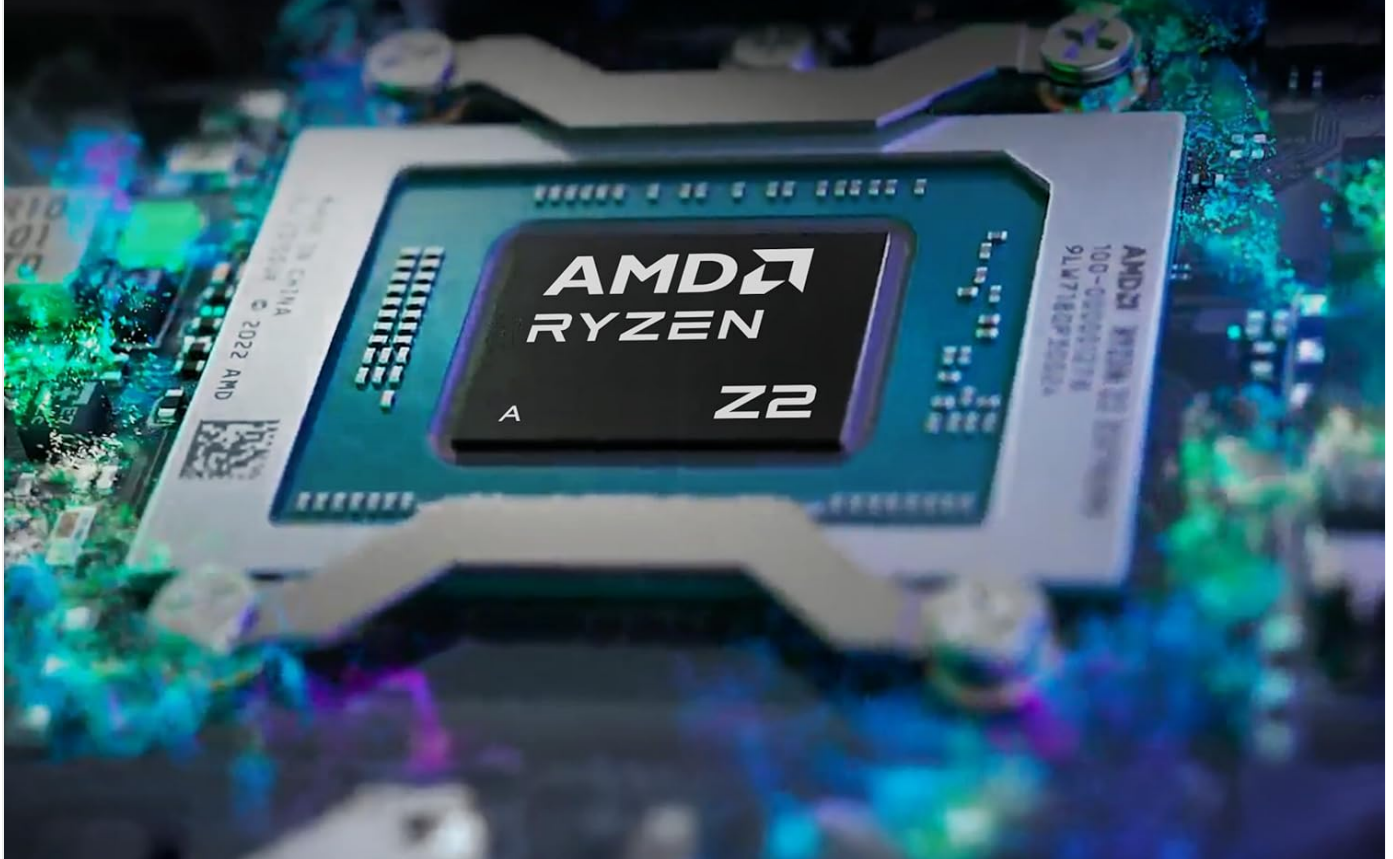


Image 6.1: Internal components highlighting the AMD Ryzen Z2 A processor, 16GB LPDDR5 RAM, and 512GB SSD.

6.2 Display

Experience crisp, fluid visuals on the 7-inch Full HD 120Hz display with FreeSync™ Premium. The screen offers 500 nits of brightness and is protected by Gorilla Glass.

See it. Hear it. Feel it.

7" 1080p / 120Hz

High refresh rate display with VRR support

Built for ultra-smooth graphics and immersive play



Image 6.2: The 7-inch FHD 120Hz display in action, showcasing vibrant graphics.

6.3 Battery and Charging

The device features a 60Whr battery for extended play sessions and supports fast charging, reaching 50% charge in approximately 30 minutes.

Greater efficiency = longer playtime

60Wh 
Battery capacity



Image 6.3: A user enjoying the handheld, emphasizing the 60Whr battery capacity.

6.4 Ergonomics

The redesigned chassis with contoured grips, inspired by Xbox Wireless Controllers, ensures comfort during long gaming sessions. The balanced 1.47lbs weight distribution minimizes fatigue.

Inspired by Xbox controls

Balanced weight distribution for longer,
more comfortable play



Image 6.4: A user holding the device, illustrating the comfortable, Xbox-inspired grips.

7. MAINTENANCE

To ensure the longevity and optimal performance of your ROG Xbox Ally Z2, consider the following maintenance tips:

- **Software Updates:** Regularly check for and install system and driver updates via Armoury Crate SE to benefit from performance improvements and bug fixes.
- **Cleaning:** Use a soft, dry cloth to clean the screen and exterior. Avoid abrasive materials or harsh chemicals. Ensure vents are clear of dust and debris.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery health, avoid fully discharging the device frequently. If storing for extended periods, charge the battery to around 50-60%.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your ROG Xbox Ally Z2.

8.1 Performance Issues (Frame Drops, Lag)

If you experience frame drops or lag during gameplay, consider the following:

- **Adjust Operating Mode:** In Armoury Crate SE, switch to 'Performance' or 'Turbo' mode for increased power allocation.
- **Plug In:** For demanding games, connecting the device to power can provide a significant performance boost by allowing higher wattage (TDP) to the processor.
- **Close Background Applications:** Ensure no unnecessary applications are running in the background, consuming system resources.
- **Game-Specific Settings:** Lower in-game graphics settings or resolution if performance remains an issue.

8.2 PIN/Fingerprint Not Working

If your PIN or fingerprint authentication stops working, a factory reset may resolve the issue. Ensure you back up any important data before proceeding with a factory reset.

8.3 Device Overheating

While the device is designed for efficient cooling, prolonged high-performance gaming can generate heat. Ensure the ventilation vents are unobstructed. If the device feels excessively hot, consider switching to a lower operating mode or taking a break to allow it to cool down.

9. SPECIFICATIONS





Feature	Detail
Model Number	1.99291E+11
Processor	AMD Ryzen™ Z2 A
RAM	16GB LPDDR5 6400MHz
Storage	512GB SSD
Display	7" 1080p 120Hz Touchscreen with FreeSync™ Premium
Battery	60Whr
Dimensions	6.1 x 12.5 x 5.1 inches
Weight	3.5 pounds
Release Date	October 16, 2025

10. WARRANTY AND SUPPORT

For warranty information, technical support, and additional resources, please refer to the official ASUS support website or the detailed user guide included in your product packaging. Keep your purchase receipt for warranty claims.



Related Documents - ROG Xbox Ally Z2

 <p>ROG CROSSHAIR X870E HERO</p> <p>Motherboard</p>	<p>ASUS ROG CROSSHAIR X870E HERO Motherboard User Manual</p> <p>Comprehensive user manual for the ASUS ROG CROSSHAIR X870E HERO motherboard, detailing installation, setup, specifications, and BIOS/RAID support for AMD AM5 platform.</p>
 <p>ROG ALLY X</p>	<p>ROG Ally X Gaming Handheld User Manual</p> <p>This manual provides instructions and safety information for the ROG Ally X Gaming Handheld, including device layout, getting started guide, and regulatory compliance details.</p>
 <p>TUF GAMING X870-PLUS WIFI</p> <p>Motherboard</p>	<p>ASUS TUF GAMING X870-PLUS WIFI Motherboard User Manual</p> <p>Detailed user manual for the ASUS TUF GAMING X870-PLUS WIFI motherboard, covering installation, setup, BIOS, specifications, and safety information. Learn about AMD Ryzen™ 9000/8000/7000 series processors, DDR5 memory, PCIe 5.0, and Wi-Fi 7 connectivity.</p>
 <p>ROG CROSSHAIR VIII IMPACT</p> <p>Motherboard</p>	<p>ASUS ROG CROSSHAIR VIII IMPACT Motherboard User Manual</p> <p>Comprehensive user manual for the ASUS ROG CROSSHAIR VIII IMPACT motherboard, detailing product introduction, basic installation, BIOS setup, and RAID support. Includes specifications and safety information.</p>
 <p>ROG ALLY</p>	<p>ROG Ally Gaming Handheld User Manual - ASUS</p> <p>Official user manual for the ASUS ROG Ally gaming handheld console. Get started with setup guides, safety information, and access comprehensive support resources.</p>
 <p>ROG STRIX B550-F GAMING WIFI II</p> <p>Motherboard</p>	<p>ASUS ROG STRIX B550-F GAMING WIFI II Motherboard User Manual</p> <p>This comprehensive user manual provides essential information for installing and configuring the ASUS ROG STRIX B550-F GAMING WIFI II motherboard. Designed for PC enthusiasts and builders, this guide covers detailed installation procedures, BIOS setup, and complete technical specifications to ensure optimal system performance.</p>

