HEXGAMING PHANTOM Pro Controller

HEXGAMING PHANTOM Pro Controller User Manual

Model: PHANTOM Pro Controller (Orochi Variant)

1. INTRODUCTION

The HEXGAMING PHANTOM Pro Controller is engineered for high-performance gaming, designed to meet the demands of tactical eSports. This controller integrates an ergonomic design with advanced features to enhance grip comfort, reduce fatigue, and provide precise control during extended gaming sessions. Key features include Hall Effect joysticks for durability, remappable back buttons, adjustable triggers, and interchangeable analog sticks for personalized gameplay.

Image: The HEXGAMING PHANTOM Pro Controller in Orochi color, showcasing its ergonomic design.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- PHANTOM eSports Controller
- 8 Interchangeable Thumbsticks
- Adjustment Tool
- User Manual

Note: The wireless controller does not come with a charging cable or other accessories unless specified.
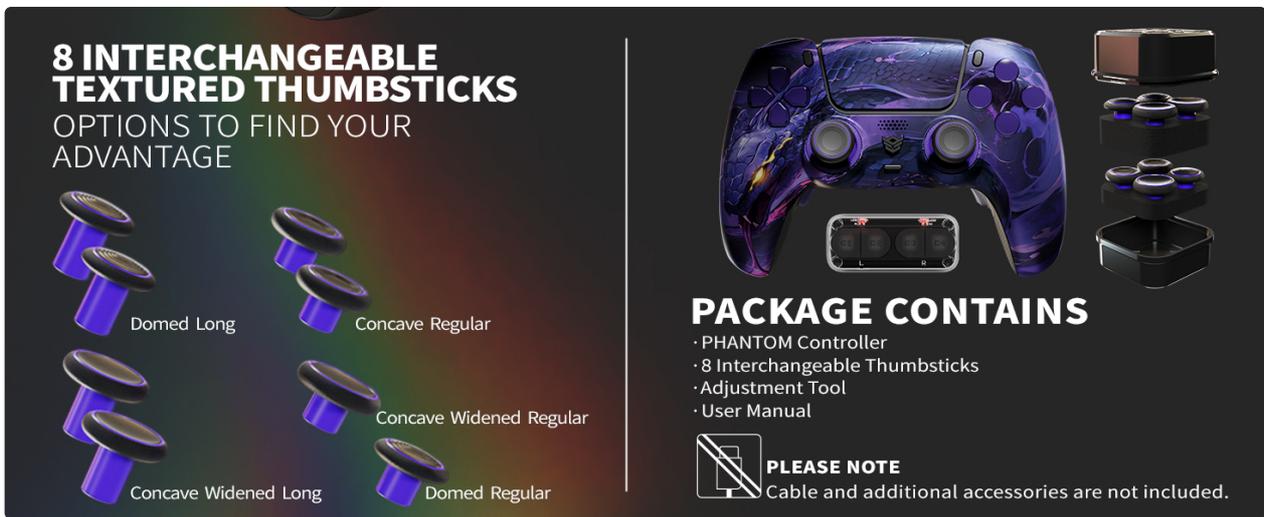
Image: A visual representation of the items included in the PHANTOM Pro Controller package.

3. PRODUCT FEATURES

3.1 Hall Effect Joysticks

The controller features advanced Hall Effect joysticks, which utilize magnetic sensors to provide exceptional accuracy and long-lasting durability. This technology minimizes physical wear and tear, reducing the likelihood of stick drift and ensuring enhanced reliability for precise in-game movements and improved control. Adjustable centering points and outer range calibration further contribute to a comfortable and immersive gaming experience.
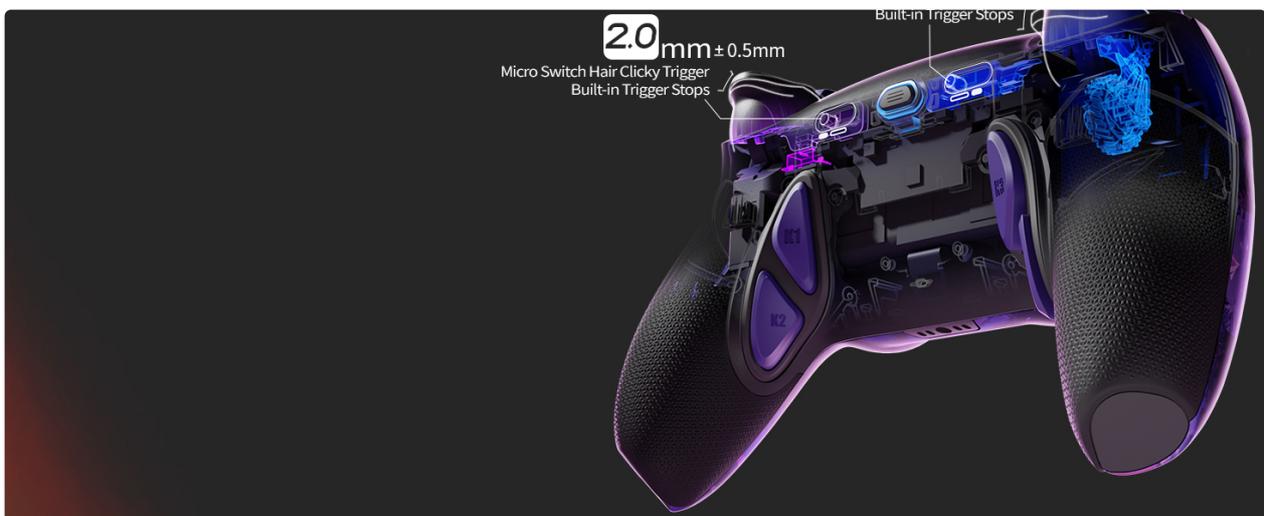

Image: Illustration of the Hall Effect joysticks and the calibration adjustment tool.

3.2 Remappable Back Buttons & Profiles

Four tactile remappable back buttons are ergonomically positioned on the underside of the controller, providing quick access to commands without removing your thumbs from the analog sticks. The controller supports 6 swappable profiles, allowing you to tailor your controls precisely and switch between layouts on the fly to suit different games or playstyles.
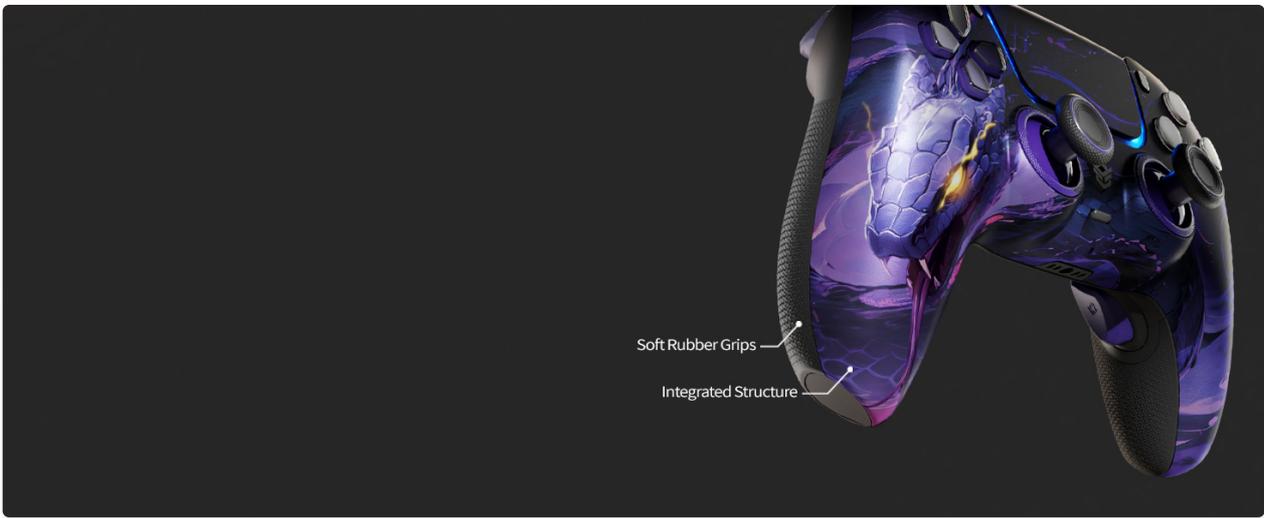
Image: The controller's underside with back buttons labeled K1-K4 and a visual of the six remapping profiles.

3.3 Adjustable Triggers

Convenient trigger-mode switches allow instant toggling between adaptive and digital triggers. Digital triggers offer a short travel range of 1.5 to 2mm, providing a mouse-click action ideal for fast-paced FPS games. Adaptive triggers provide precise control, perfect for managing throttle in racing games or other scenarios requiring nuanced input.

Image: An internal view highlighting the micro-switch hair triggers and adjustable trigger stops.

3.4 Interchangeable Analog Sticks

Customize your thumbsticks to match your playing habits. The controller includes 8 interchangeable textured sticks, offering various heights and shapes (concave, domed, extended) to optimize precision, comfort, and performance.

Image: A selection of 8 interchangeable textured thumbsticks, illustrating the customization options.

4. SETUP

4.1 Initial Connection

To connect your PHANTOM Pro Controller to your PS5, PC, or mobile device, use a compatible USB-C cable (not included). For optimal performance and calibration, a wired connection is recommended, especially for PC use.

4.2 Charging

The controller contains a Lithium Ion battery. Connect the controller via a USB-C cable to a power source (e.g., console, PC, or USB wall adapter) to charge. The LED indicator on the controller will show charging status.

5. OPERATING INSTRUCTIONS

5.1 Joystick Calibration (Using Adjustment Tool)

The Hall Effect joysticks can be calibrated for optimal performance using the included adjustment tool. Connect the adjustment tool to the controller via the ribbon cable as shown in the video. It is advised not to use wireless connections for calibration due to potential latency issues.

Your browser does not support the video tag.
Video: Demonstrates the process of calibrating the HEX Hall Effect joysticks using the adjustment tool.

Part 1: Joystick Center Deviation Calibration (L3)

This calibrates the joystick to return to the center (0,0).

1. **Enter Mode:** Hold the C1 button on the adjustment tool for 3 seconds until LED1 is on.
2. **Align Joystick:** Move the left joystick (L3) to correct the AXIS value. AXIS values should be 0.00392.
3. **Save and Exit:** Hold the C1 button for 3 seconds until LED1 flashes three times and turns off.

Part 2: Circular Input Area Calibration Mode (L3)

1. **Enter Mode:** Hold the C2 button on the adjustment tool for 3 seconds until LED1 stays on.
2. **Move Joystick:** Rotate the left joystick (L3) counter-clockwise to its full extent 3-5 times, then press C2 briefly.
3. **Adjust Input:** Push the joystick to the Up/Left/Down/Right positions in sequence. For each direction,

ensure AXIS values are between -0.92 and -0.99 or 0.92 and 0.99, and press the C2 button each time at the proper value.

4. **Save and Exit:** Hold C2 for 3 seconds until LED1 turns off.

Note: Follow the direction (Up/Left/Down/Right) adjustment in order. If incorrect, re-enter the mode to recalibrate.

Part 3: Test Circularity Calibration: Limit AXIS Value Calibration Mode (L3)

Before Operation: AXIS value must be at -1 or 1.

- **Push Up:** Increase distance to limit in X-axis.
- **Push Down:** Decrease distance to limit in X-axis.
- **Push Left:** Decrease distance to limit in Y-axis.
- **Push Right:** Increase distance to limit in Y-axis.

1. **Enter Mode:** Press and hold C1 + C2 for 3 seconds until LED1 blinks slowly.
2. **Push Joystick:** Move the joystick in a certain direction [UP/LEFT/DOWN/RIGHT] to the full, and click the C2 button before adjusting the AXIS value.
3. **Adjust Distance:** Push the joystick UP (or RIGHT) multiple times to adjust the AXIS value until it reaches "1" or "-1", then click the C2 button to save.
4. **Save and Exit:** Hold C1 + C2 for 3 seconds until LED1 turns off.
5. **Double-Check:** After calibrating the circularity, exit the mode (LED off) and AXIS values should be at "-1" or "1" when pushing the joystick to the full in [UP/LEFT/DOWN/RIGHT].

Note: If AXIS values have already reached "-1" or "1" when pushing the joystick to [UP/LEFT/DOWN/RIGHT] to the full, then no need to recalibrate. If not, retry the above steps to calibrate a specific direction.

Right Joystick (R3) Calibration

For the Right Joystick (R3) calibration, follow the same steps as for the Left Joystick (L3) but use the corresponding buttons on the adjustment tool:

- **Center Deviation:** Enter the mode by holding the C3 button, then follow the L3 joystick center deviation calibration steps to calibrate the stick back to the center (0,00362).
- **Circular Input Area:** Enter the mode by holding the C4 button, then follow the L3 joystick circular input area calibration steps to calibrate.
- **Limit AXIS Value:** Enter the mode by holding the C3 + C4 buttons, then follow the L3 joystick limit AXIS value calibration mode steps to calibrate.

5.2 Swapping Thumbsticks

The controller's thumbsticks are interchangeable. To swap them, gently pull the existing thumbstick straight up to remove it. Select your desired thumbstick from the included set and align it with the joystick base, then push down firmly until it clicks into place.

Your browser does not support the video tag.
Video: Demonstrates the process of swapping thumbsticks on the controller.

5.3 Remapping Back Buttons

The 4 back buttons (K1, K2, K3, K4) can be remapped to any standard controller button. Refer to the controller's specific remapping instructions (usually found in a quick start guide or on the manufacturer's website) for detailed steps on how to enter remapping mode, assign buttons, and save profiles.

5.4 Adjusting Triggers

To switch between adaptive and digital trigger modes, use the physical switches located near the triggers on

the underside of the controller. Slide the switch to your preferred mode. Digital mode provides a shorter, clicky response, while adaptive mode offers a full range of motion with haptic feedback (if supported by the game).

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the controller. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the controller in a cool, dry place away from direct sunlight and extreme temperatures. Use the provided carrying case for protection during travel or extended storage.
- **Battery Care:** To prolong battery life, avoid fully discharging the controller frequently. Charge the controller regularly, even if not in use for extended periods.

7. TROUBLESHOOTING

- **Controller Not Responding:** Ensure the controller is charged. If using a wired connection, try a different USB-C cable or port. If using wirelessly (if applicable), ensure it's properly paired.
- **Stick Drift/Inaccurate Input:** Although Hall Effect joysticks are designed to prevent drift, recalibration may be necessary if you experience any issues. Follow the joystick calibration steps in Section 5.1.
- **Buttons Not Working:** Check for any physical obstructions. If remapping was recently performed, ensure the profile was saved correctly.
- **Connectivity Issues:** For PC, ensure drivers are up to date. For consoles, try restarting the console.

8. SPECIFICATIONS

- **Model:** PHANTOM Pro Controller
- **Brand:** HEXGAMING
- **ASIN:** B0DX274LC9
- **Product Dimensions:** 6.3 x 3.94 x 2.36 inches
- **Item Weight:** 11.64 ounces
- **Batteries:** 1 Lithium Ion battery required (included)
- **Compatibility:** PS5, PC, Mobile
- **Special Features:** 4 Remappable Buttons, 6 Remapping Profiles, 8 Interchangeable Analog Sticks, Adjustable Triggers, Hall Effect Joysticks

9. WARRANTY AND SUPPORT

HEXGAMING products are typically covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty details, including duration and terms, please refer to the warranty card included with your product or visit the official HEXGAMING website. For technical support, troubleshooting assistance, or service inquiries, please contact HEXGAMING customer support through their official channels.

Please retain your proof of purchase for warranty claims.