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› BITFUNX MINI-003 Flatbox Gaming Keypad User Manual

BITFUNX MINI-003

BITFUNX MINI-003 Flatbox Gaming Keypad User Manual

All-Button Leverless Controller for PC, PS3, PS4, Switch, Steam

1. INTRODUCTION

This manual provides instructions for the BITFUNX MINI-003 Flatbox Gaming Keypad, an all-button leverless controller designed for various gaming platforms. It features hot-swappable mechanical switches, customizable RGB lighting, and multiple input modes for a versatile gaming experience.

2. KEY FEATURES

- **Wide Compatibility:** Supports Windows, Steam Deck, PC, Switch, Android 10, PS3, PS4, Steam, Mister, Raspberry Pi (Lakka, RetroPie, Recalbox, Batocera), Linux, iPadOS, macOS. PS4/PS5 consoles require a USB dongle (not included).
- **Multiple Input Modes:** XInput (Steam), Switch, PS4, PS3, and Keyboard (HID-KB).
- **Advanced Functions:** Multiple SOCD modes, turbo functions, built-in web configuration, button layout swap, full button mapping, and firmware updates.
- **Ultra-Low Latency:** Less than 1ms delay, with a frame leakage rate above 98%.
- **Hot-Swap & DIY Support:** Allows for easy replacement of mechanical buttons without soldering. Supports custom skin themes.
- **Custom RGB & OLED Display:** Features RGB lighting effects and a 12-button layout. Includes an OLED display for status information.

3. SETUP AND CONNECTION

To set up your BITFUNX MINI-003 controller, follow these steps:

1. **Connect the Controller:** Use the included USB Type-C cable to connect the controller to your gaming device (PC, Switch, PS3, PS4, etc.). The cable is 200cm long for flexible placement.
2. **Select Input Mode:** While plugging in the controller, hold one of the following buttons to select the desired input mode:
 - **1P:** PS3/DInput
 - **2P:** PS4

- **1K:** Nintendo Switch
- **2K:** PC/XInput (Steam)
- **3K:** HID-KB (Keyboard)

3. **Initial Power On:** The controller will power on automatically once connected. The OLED display will show the current status.



Image: The BITFUNX MINI-003 controller connected to various gaming platforms including PC, Nintendo Switch, PS3, PS4, Android, and Mister.

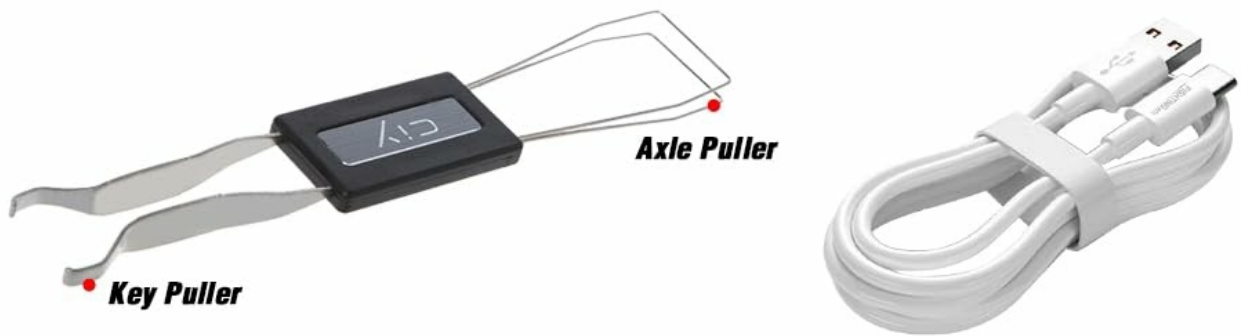


Image: Overview of the BITFUNX MINI-003 controller with all buttons clearly labeled for easy identification and setup.

4. OPERATION

4.1 Basic Button Configuration

The controller features 12 buttons, including directional inputs (Up, Left, Down, Right), action buttons (A, B, X, Y), shoulder buttons (RB, LB, RT, LT), and system buttons (RS, LS, Capture, Start, Select, Home, Turbo). All keys can be remapped and customized via the web configuration interface.

Basic Button Configuration

- All keys can be changed in the settings.
- All buttons can be customized as you wish.

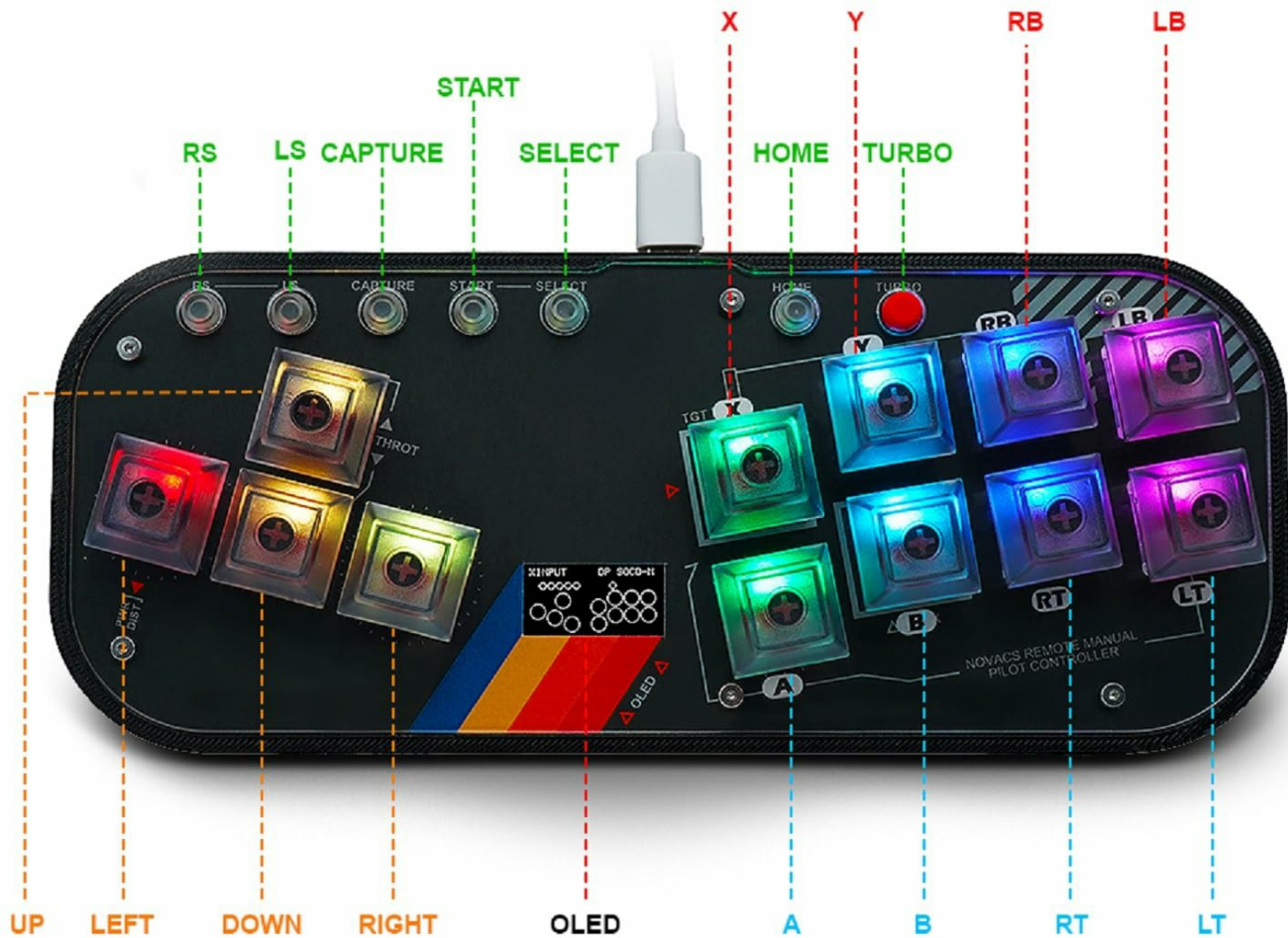


Image: Detailed diagram showing the basic button layout and their functions on the BITFUNX MINI-003 controller.

4.2 Directional Input Modes

To select the active directional pad mode when plugging in the controller, press:

- **SELECT + START + DOWN:** Visual Helmet mode
- **SELECT + START + LEFT:** Left analog stick
- **SELECT + START + RIGHT:** Right analog stick

4.3 SOCD Modes

To select the active SOCD mode when the controller is plugged in, press:

- **HOME + START + DOWN:** Neutral (Up+Down = Middle, Left+Right = Middle)
- **HOME + START + UP:** Up priority (Up+Down = Up, Left+Right = Middle)
- **HOME + START + LEFT:** Last input priority (post-override)

4.4 RGB LED Customization

The Pico Fighting Board supports WS2812 and similar RGB LEDs. To change LED settings, use the following key combinations:

- **SELECT + START + 1P:**Next Animation
- **SELECT + START + 1K:**Previous Animation
- **SELECT + START + 2P:**Brightness Up
- **SELECT + START + 2K:**Brightness Down
- **SELECT + START + 3P:**LED Parameter Up
- **SELECT + START + 3K:**LED Parameter Down
- **SELECT + START + 4P:**Pressed Parameter Up
- **SELECT + START + 4K:**Pressed Parameter Down

Multiple RGB light animations to choose from.



Static Color (14 colors)



Rainbow Cycle



Rainbow Chase



Static Theme (20 colors)



Image: Examples of various RGB lighting animations, including Static Color, Rainbow Cycle, Rainbow Chase, and Static Theme, available on the controller.

4.5 Y-axis Flip Mode

To swap the Up and Down buttons, hold **HOME + START + RIGHT** while connecting the device.

4.6 Web Configuration

The controller features an embedded web configuration interface for advanced customization, including full button mapping, multiple profiles, and custom button combinations. Refer to the official BITFUNX website or product support page for detailed instructions on accessing and using the web configurator.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the surface of 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.
- **Hot-Swap Switches:** The controller supports hot-swappable mechanical switches. To replace a switch, gently pull the keycap off, then use a switch puller tool to remove the switch. Insert a new compatible mechanical switch, ensuring it is properly aligned before pressing it into place.



Image: Close-up view of a Cherry RGB Red Switch, highlighting the hot-swappable design for easy maintenance and customization.

6. TROUBLESHOOTING

- **Controller Not Responding:**
 - Ensure the USB Type-C cable is securely connected to both the controller and the gaming device.
 - Verify that the correct input mode is selected for your platform (refer to Section 3. Setup and Connection).
 - Try connecting the controller to a different USB port or a different device to rule out port or device issues.
- **Buttons Not Functioning Correctly:**
 - Check the button mapping in the web configuration interface.
 - If using PS4/PS5, ensure you have the necessary USB dongle (not included) for compatibility.
 - For mechanical switches, ensure they are fully seated and not damaged. Hot-swap allows for easy replacement if a switch is faulty.
- **RGB Lights Not Working:**

- Verify RGB settings using the key combinations described in Section 4.4.
- Ensure the controller is receiving sufficient power.

• **Firmware Updates:**

Regularly check the official BITFUNX website for firmware updates to ensure optimal performance and compatibility. Firmware updates typically involve downloading files from a GitHub repository and following specific instructions for installation.

7. SPECIFICATIONS

Feature	Detail
Model Name	MINI-003 (Leverless Controller)
Brand	BITFUNX
Compatible Devices	Android, Nintendo Switch, PC, PlayStation 3, PlayStation 4, Steam Deck, Mister, Raspberry Pi, Linux, iPadOS, macOS
Controller Type	Gamepad (All-Button Leverless)
Connectivity Technology	USB Type-C Cable (200cm)
Number of Buttons	12
Additional Features	Ergonomic design, Hot-Swap switches, OLED display, Custom RGB, SOCD modes, Web configuration, Turbo function
Item Weight	235 Grams
Dimensions (D x W x H)	0.63"D x 8.54"W x 5.12"H (Approx. 190mm x 76mm x 10mm)
Power Source	Battery Powered (via USB-C)

Product size

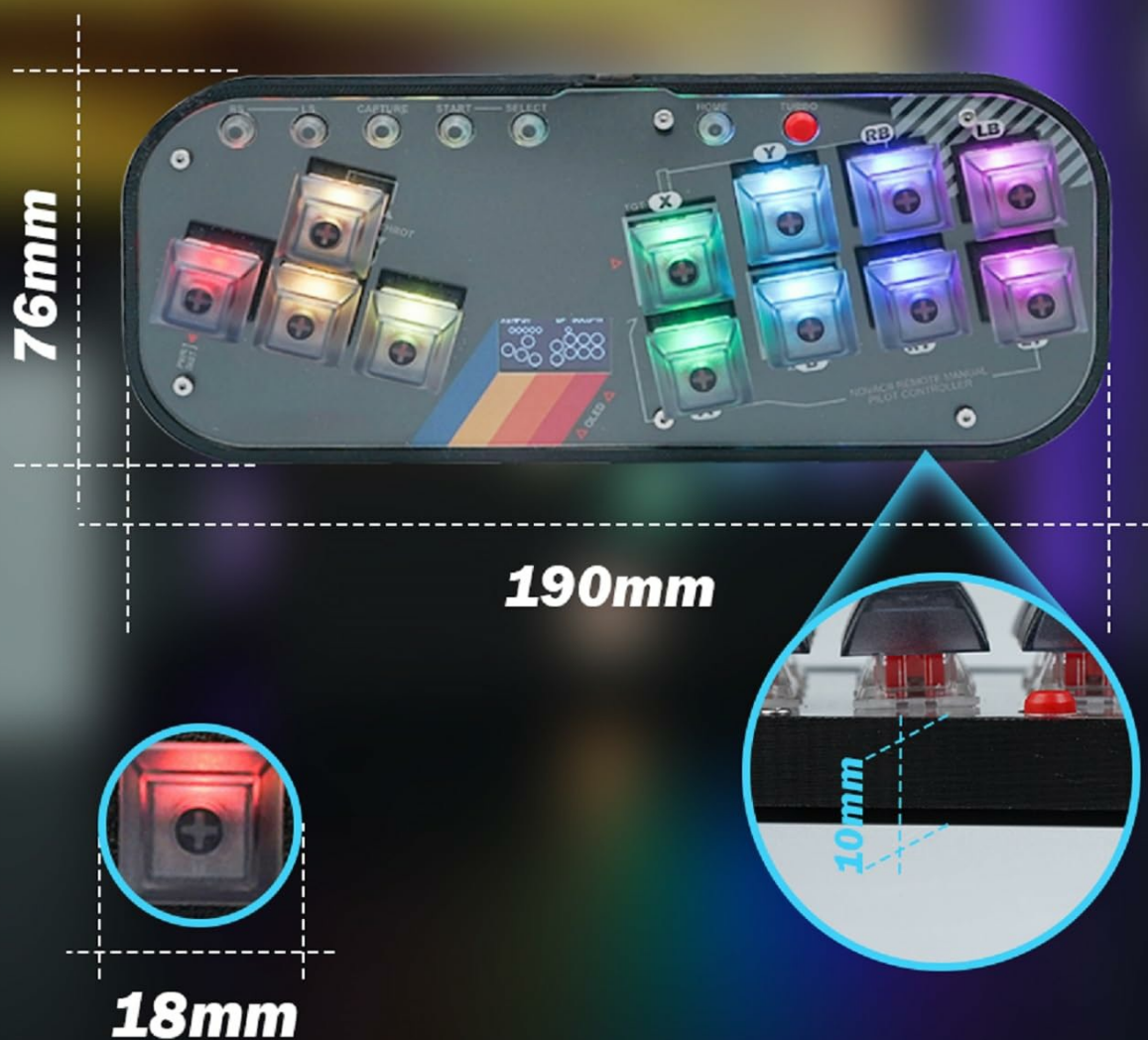


Image: Diagram illustrating the physical dimensions of the BITFUNX MINI-003 controller, including length, width, and button size.

8. WARRANTY INFORMATION

Specific warranty details for the BITFUNX MINI-003 controller are typically provided at the point of purchase or on the official BITFUNX website. Please retain your proof of purchase for any warranty claims. For information regarding protection plans, refer to the options available from your retailer.

9. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or general inquiries regarding your BITFUNX MINI-003 controller, please visit the official BITFUNX website or contact their customer support channels. You may find additional resources, FAQs, and firmware updates on their support pages.

Official BITFUNX Store: [Visit the BITFUNX Store on Amazon](#)

10. PRODUCT VIDEO DEMONSTRATION

Your browser does not support the video tag.

Video: An official demonstration of the BITFUNX Mini Gamepad Leverless Controller Arcade Stick, showcasing its features and functionality.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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