

ONEED T16-C

ONEED CosmoxGaming T16-C Leverless Arcade Stick User Manual

Model: T16-C | Brand: ONEED

1. INTRODUCTION

The ONEED CosmoxGaming T16-C is a high-performance leverless arcade stick designed for precision and responsiveness in fighting games. Featuring a 16-button layout with Kailh crystal low-profile switches, it offers ultra-low latency and extensive customization options. This manual provides detailed instructions for setup, operation, customization, and maintenance to ensure optimal performance across various gaming platforms.



Figure 1: ONEED CosmoxGaming T16-C Leverless Arcade Stick. This image displays the top-down view of the transparent acrylic leverless arcade stick with 16 clear, illuminated buttons.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x Haute42 T16-C Leverless Arcade Controller
- 1x USB Cable (1.5m USB Type-C)
- Accessories: 1x Kailh Crystal Low-Profile Switch, 1x Switch Puller, 8x Anti-Slip Pads, 3x Small Button Caps
- 1x Instruction Manual (this document)

Video 1: T16-C Unboxing Video. This video demonstrates the unboxing process of the T16-C controller, showcasing all included components and accessories.

3. SPECIFICATIONS

Feature	Detail
Model Name	Haute42 T16-C
Brand Name	ONEED
Compatible Devices	Windows 10 or above, Steam Deck, PS3, PS4, Switch, Raspberry Pi, MiSTer, Android
Controller Type	Arcade Stick Gamepad (Leverless)
Connectivity Technology	USB
Additional Features	Hot-Swappable Switches, Custom RGB Lighting, OLED Screen, SOCD Modes, Web Configuration
Button Quantity	16
Hardware Platform	PC
Power Source	Corded Electric
Item Weight	2.4 Pounds
Item Dimensions	14.37 x 9.25 x 1.18 inches
Switches	Kailh Crystal Low-Profile Switches
Firmware	GP2040-CE (<1ms latency, supports firmware updates)



Figure 2: Dimensions of the T16-C Leverless Arcade Stick. This image illustrates the physical dimensions of the controller, showing a length of 29.6cm (11.65 inches) and a width of 19.6cm (7.71 inches), with a button diameter of 2.6cm (1.02 inches) and a thickness of 1.25cm (0.49 inches).

4. SETUP AND CONNECTION

The T16-C Leverless Arcade Stick is compatible with a wide range of platforms. Follow these steps to connect your device:

4.1 General Connection

1. Connect the provided USB Type-C cable to the port on the T16-C controller.
2. Connect the other end of the USB cable to an available USB port on your gaming device (PC, PS3, PS4, Switch,

Steam Deck, Raspberry Pi, MiSTer, Android).

3. The controller should be automatically recognized by most systems.

4.2 Platform-Specific Notes

- **PC / Steam Deck / Raspberry Pi / MiSTer / Android:** Typically plug-and-play. The default input mode is usually XInput.
- **PS3 / Switch:** The controller supports these platforms directly. You may need to select the appropriate input mode via the web configurator or hotkeys.
- **PS4 / PS5:** For PS4, the controller can run as an authenticated PS4 controller. For PS5, you will need to select 'Host USB' in the web configurator and insert a compatible USB dongle into the extension port on the product for authentication. Without proper authentication, PS4/PS5 modes may time out after 8 minutes.

4.3 Web Configuration Access

The T16-C features a web configurator for advanced settings and customization. To access it:

1. **Method 1:** Hold the 'Start' button while connecting the controller to your computer via USB. The OLED screen will indicate entry into web configuration mode.
2. **Method 2:** Connect the controller normally to your computer. Then, hold 'Start + X + Y' buttons simultaneously for more than 5 seconds. The screen will freeze, indicating entry into web configuration mode.
3. Once in web configuration mode, open a web browser on your computer and navigate to <http://192.168.7.1>.

Video 2: How to Enter the Web Configuration. This video provides a visual guide on the two methods to access the web configuration interface for the T16-C controller.

4.4 Input Mode Settings

You can change the input mode of the controller through the web configurator under 'Settings' -> 'Input Mode Settings'. This allows you to select the appropriate mode for your platform (e.g., XInput for PC, Nintendo Switch, PS3/DirectInput, PS4, PS5, Xbox One, etc.).

Video 3: Input Mode Settings. This video demonstrates how to navigate the web configurator to change the input mode for different gaming platforms.

5. OPERATING INSTRUCTIONS

The T16-C is designed for intuitive control and high performance.

5.1 Button Layout and Functions

The controller features a standard 16-button leverless layout, optimized for fighting games. Refer to the product images for the exact button placement.

CosmoXGaming Leverless Arcade Stick

T16-C with New Upgraded Kailh Crystal Switch



<1ms Delay



Turbo Function



OLED Screen



SOCD Modes



Hot-Swappable



Custom RGB



Crystal Switch



Web Configuration



Figure 3: T16-C Multiple Functions Overview. This image highlights key features such as <1ms Delay, Turbo Function, OLED Screen, SOCD Modes, Hot-Swappable, Custom RGB, Crystal Switch, and Web Configuration.

5.2 Turbo Function

The T16-C includes a turbo function for rapid button presses. Consult the web configurator or the included instruction manual for specific button combinations to activate and configure turbo settings.

5.3 SOCD Modes

The controller supports various Simultaneous Opposite Cardinal Directions (SOCD) cleaning modes, which are crucial for competitive play. These can be configured via the web configurator under 'Gamepad Settings'.

5.4 Hot-Swappable Switches

The T16-C features hot-swappable Kailh crystal low-profile switches, allowing you to easily replace them with your preferred mechanical key switches without soldering.

Support DIY

Players can insert different artwork for the front

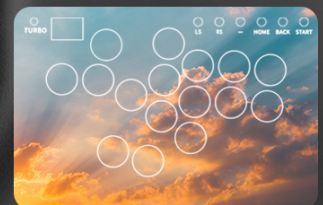
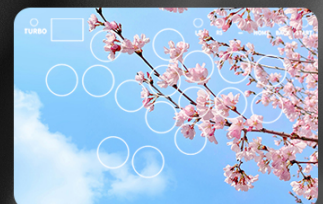
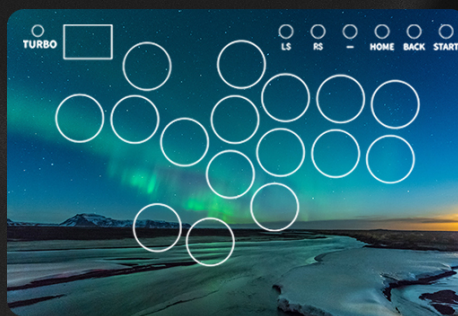
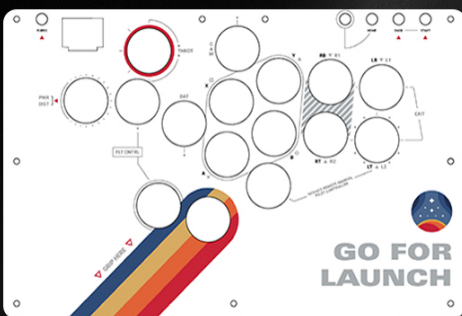


Figure 4: Kailh Crystal Low-Profile Switch Details. This image provides a detailed exploded view of the Kailh Crystal Low-Profile Switch, highlighting its transparent design and internal components.



Figure 5: Close-up of a Kailh Crystal Switch. A detailed view of the transparent Kailh Crystal Low-Profile Switch.

6. CUSTOMIZATION

The T16-C offers extensive customization options to personalize your gaming experience.

6.1 Button Mapping

You can remap individual buttons to different functions using the web configurator. Access 'Configuration' -> 'Pin Mapping' to adjust button assignments.

6.2 RGB Lighting

Customize the RGB lighting effects and colors of your buttons through the web configurator. Navigate to 'Configuration' -> 'LED Configuration' and 'Custom LED Theme' to set your preferences.



Figure 6: T16-C RGB Lighting Examples. This image displays the T16-C controller with various customizable RGB lighting patterns and colors on its buttons.

Video 4: How to DIY RGB Light. This video guides users through customizing the RGB lighting of the T16-C controller via the web configurator.

6.3 DIY Art Panels

The acrylic panels are removable, allowing you to insert custom artwork to personalize the appearance of your fight pad.



Figure 7: T16-C Support for DIY Art Panels. This image shows the T16-C controller with various examples of custom art panels inserted beneath the transparent acrylic top.

7. FIRMWARE UPDATES

Regular firmware updates ensure optimal performance and compatibility. It is recommended to keep your controller's firmware up to date.

7.1 How to Update Firmware

1. Visit the official CosmoxGaming support website (cosmoxgaming.com/support/) to download the latest GP2040-CE firmware and the 'flash_nuke' file.
2. Enter bootloader mode: Hold the bootloader button (usually a small button on the back, requiring a needle to press) while connecting the controller to your computer, or connect normally and hold 'Back + X + Y' for 5 seconds. A removable disk named 'RP1-RP2' will appear.
3. Drag the 'flash_nuke.uf2' file to the 'RP1-RP2' drive. This clears previous data. The drive will briefly disconnect and reconnect.
4. Drag the latest 'GP2040-CE_X.X.X_uf2' firmware file to the 'RP1-RP2' drive. Wait for the copy to complete. The drive will disconnect, and the product will restart automatically with the new firmware.

Video 5: Update Firmware Guidance. This video provides step-by-step instructions on how to download and install the latest firmware for your controller.

8. MAINTENANCE

To ensure the longevity and optimal performance of your T16-C Leverless Arcade Stick, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the acrylic panels and buttons. For stubborn smudges, a slightly damp cloth with mild soap can be used, followed by immediate drying. Avoid abrasive cleaners or solvents.
- **Storage:** Store the controller in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Avoid sharp bends or kinks in the USB cable. Disconnect by pulling the plug, not the cable itself.
- **Switch Replacement:** When replacing switches, use the provided switch puller carefully to avoid damaging the switch or the PCB.

9. TROUBLESHOOTING

If you encounter issues with your T16-C controller, try the following solutions:

- **Controller Not Recognized:**

- Ensure the USB cable is securely connected to both the controller and your device.
- Try a different USB port on your device.
- Verify the correct input mode is selected via the web configurator (see Section 4.4).
- Restart your gaming device.

- **Buttons Not Responding:**

- Check button mapping in the web configurator (see Section 6.1).
- If using hot-swappable switches, ensure they are properly seated. Try reseating or replacing the affected switch.

- **RGB Lights Not Working/Incorrect:**

- Check LED configuration in the web configurator (see Section 6.2).
- Ensure the LED button order is not disrupted in the LED configuration settings, as this can cause issues.

- **PS4/PS5 Timeout:**

- Ensure proper authentication settings are configured in the web configurator (see Section 4.2). For PS5, a compatible USB dongle is required in the extension port.

- **General Issues:**

- Perform a firmware update (see Section 7).
- If settings become corrupted, use the 'flash_nuke' file during firmware update to reset to original stable state.

10. WARRANTY AND SUPPORT

The ONEED CosmoxGaming T16-C Leverless Arcade Stick comes with a 1-year warranty.

For technical support, warranty claims, or any questions regarding your product, please contact us through Amazon. Our customer service team is available to provide assistance.

You can also visit the official CosmoxGaming website for additional resources, FAQs, and community support:

- **Official Website:** cosmoxgaming.com
- **Support Page:** cosmoxgaming.com/support/

Video 6: ONEED-CosmoxGaming T12-C/T16-C Leverless Controller Overview. This video provides a general overview of the T16-C controller, highlighting its design and features.