

## Mytrix M16

# Mytrix M16 Leverless Arcade Controller User Manual

Model: M16

## INTRODUCTION

Thank you for purchasing the Mytrix M16 Leverless Arcade Controller. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device. Please read it thoroughly to ensure optimal performance and longevity of your controller.

## PACKAGE CONTENTS

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

- Mytrix M16 Leverless Arcade Controller
- USB-C Cable
- Keycap Puller
- User Manual
- Extra Low Profile Red Switches (x2)
- Extra Keycaps (x2)



Image: Contents of the Myrix M16 package, including the controller, USB-C cable, keycap puller, manual, two extra switches, and two extra keycaps.

## SETUP AND COMPATIBILITY

The Myrix M16 controller offers wide compatibility across various platforms. Ensure your device is updated to the latest firmware for best performance.

### System Requirements

- **PC:** Windows 10 and above, Steam Deck, Raspberry Pi, MiSTer, Linux
- **Consoles:** PS3, PS4, Nintendo Switch
- **Mobile/Other:** Android, iPadOS, MacOS
- **Note:** For PlayStation 5 and Xbox consoles, an additional adapter is required (not included).

# Wide Compatibility & Extension

Notice: PS5/Xbox Series (Additional converter required)



PS5



PS4



PS3



PC



Switch



Steam



Arcade



Xbox



Image: Visual representation of the Myrix M16 controller's compatibility with various platforms including PS5, PS4, PS3, PC, Switch, Steam, Arcade, and Xbox (with adapter).

## Initial Connection

1. Connect the provided USB-C cable to the controller's USB-C port.
2. Connect the other end of the USB-C cable to your desired gaming platform (PC, console, etc.).
3. The controller should be automatically recognized by most compatible systems.

## OPERATING INSTRUCTIONS

The Myrix M16 features a GP-2040-CE chip for ultra-low latency and various control modes.

### Control Modes

The controller supports multiple input modes:

- X-input mode
- Switch mode
- PS3/D-input mode

- PS4 mode
- Keyboard mode

### Button Layout and Key Values

Refer to the diagram and table below for the standard button layout and corresponding key values across different modes.

The diagram shows the top of the Myrix M16 controller. On the left is an OLED SCREEN. Below it is a Type-c port. To the right of the Type-c port is a USB port. Further right are four buttons labeled TURBO, TOUCH, HOME, and SELECT. The main button layout includes a directional pad (up, down, left, right), M1, X, Y, RB, LB, A, B, RT, LT, M2, and RS buttons.

#### Key Value Table

| XINPUT | SWITCH  | PS4/PS3  | DINPUT | ARCADE | RP2040 |
|--------|---------|----------|--------|--------|--------|
| A      | B       | ×        | 2      | K1     | PIN6   |
| B      | A       | ○        | 3      | k2     | PIN7   |
| X      | Y       | □        | 1      | P1     | PIN10  |
| Y      | X       | △        | 4      | P2     | PIN11  |
| LB     | L       | L1       | 5      | P4     | PIN13  |
| RB     | R       | R1       | 6      | P3     | PIN12  |
| LT     | ZL      | L2       | 7      | K4     | PIN9   |
| RT     | ZR      | R2       | 8      | k3     | PIN8   |
| BACK   | -       | SHARE    | 9      | COIN   | PIN16  |
| START  | +       | OPTIONS  | 10     | START  | PIN17  |
| LS     | LS      | L3       | 11     | LS     | PIN18  |
| RS     | RS      | R3       | 12     | RS     | PIN19  |
| HOME   | HOME    | PS       | 13     | Home   | PIN20  |
| ----   | Capture | Touchpad | 14     | ----   | PIN21  |
| M1     |         |          |        |        | PIN27  |
| M2     |         |          |        |        | PIN26  |

Image: Diagram showing the button layout of the Myrix M16 controller and a table detailing key values for XInput, Switch, PS4/PS3, DInput, Arcade, and RP2040 modes.

### Special Functions

- **Turbo Function:** Activates rapid fire for selected buttons. Consult the web configuration for specific setup.
- **SOCD Cleaning Modes:** Supports various Simultaneous Opposite Cardinal Direction cleaning modes to prevent conflicting directional inputs. Configurable via web interface.
- **M1/M2 Custom Buttons:** Two customizable buttons for advanced control.

### RGB Lighting

The controller features customizable RGB lighting with 4 preset modes.



## 4 RGB Backlight Modes



Image: The Mytrix M16 controller displaying various RGB backlight colors, illustrating the 4 preset modes.

### Custom RGB Lighting Controls

Adjust RGB lighting using the following button combinations:

- SELECT + START + X:**Next Animation
- SELECT + START + Y:**Previous Animation
- SELECT + START + A:**Brightness Up
- SELECT + START + B:**Brightness Down
- SELECT + START + RB:**LED Parameter Up
- SELECT + START + RT:**LED Parameter Down
- SELECT + START + LB:**Pressed Parameter Up
- SELECT + START + LT:**Pressed Parameter Down

## Slim and Portable



Image: A visual guide to customizing RGB lighting on the Myrix M16 controller, showing various color options and control combinations.

## MAINTENANCE AND CUSTOMIZATION

The Myrix M16 is designed for easy maintenance and extensive customization.

### Hot-Swappable Switches

The controller uses Gateron Low Profile Red Switches, which are hot-swappable. This allows you to replace switches without soldering.

- **Switch Type:** Gateron Low Profile Red Switches
- **Lifespan:** 50 Million
- **Actuation Force:** Approximately 45g
- **Travel Distance:** 3.2mm
- **Actuation Point:** 1.5mm



# Gateron Low Profile Red Switch



5000 Million  
Lifespan



45g Actuation  
Force



1.5mm Actuation  
Point



Hot-swappable



Image: Close-up view of the Gateron Low Profile Red Switches on the Myrix M16 controller, highlighting their hot-swappable nature.

## Detachable 7-Layer Design

The controller features a 7-layer detachable board design, enabling customization of the keyboard's graphics and internal components.

# Detachable 7-Layer Design & Custom Themes

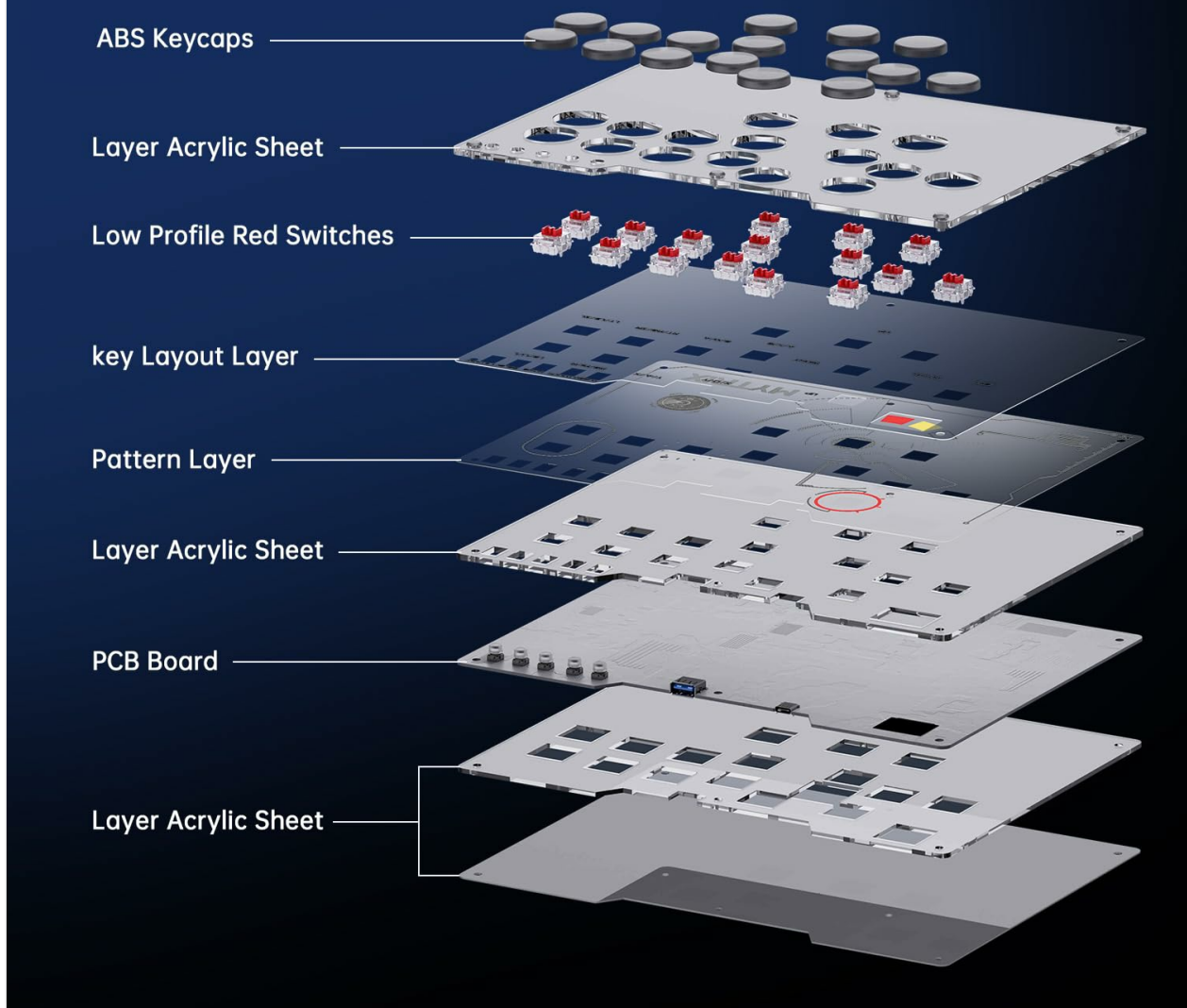


Image: Exploded view of the Myrix M16 controller, showing its 7-layer detachable design for customization, including ABS keycaps, acrylic sheets, switches, and PCB board.

## DIY Screen & Artwork Support

Personalize your controller with custom artwork and screen displays.



## Gateron Low Profile Red Switch

5000 Million Lifespan  
Actuation Force: Approximately 45g  
Travel Distance:  
Total Travel: 3.2mm  
Actuation Point: 1.5mm

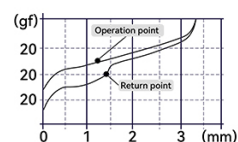




Image: Examples of custom artwork and screen displays on the Mytrix M16 controller, demonstrating DIY customization possibilities.

## General Cleaning

To clean your controller, use a soft, dry cloth. Avoid abrasive cleaners or solvents. For deeper cleaning, the detachable layers allow access to internal components.

# TROUBLESHOOTING

This section addresses common issues you might encounter with your Mytrix M16 controller.

## Connectivity Issues

- **Controller not detected:** Ensure the USB-C cable is securely connected to both the controller and the device. Try a different USB port or cable.
- **No data flow:** If the controller powers on but is not recognized by any system (Windows, PopOS, consoles), attempt to access the web configurator.

## Web Configuration Access

The Mytrix M16 features a built-in embedded web configuration interface for advanced settings and firmware updates.

1. Hold the **START** button while plugging the device into your computer.
2. The controller should enter a special mode, often displaying an IP address on its small screen.
3. Open a web browser on your computer and navigate to the displayed IP address.
4. If the browser times out or no device is connected, ensure your computer's network settings allow connection to local devices.

## Double Inputs or Unresponsive Buttons

- **Double inputs:** This can sometimes be caused by outdated firmware. Access the web configurator to check for and install the latest firmware updates.
- **Unresponsive buttons:** The controller supports hot-swappable switches. If a specific button is unresponsive, try replacing its switch with one of the included spares using the keycap puller.

## Firmware Updates

Firmware updates are crucial for optimal performance and resolving potential issues. The Mytrix M16 uses an open-source GP2040-CE firmware.

- **Before updating:** It is highly recommended to back up your current settings and take screenshots of all web configurator pages. Firmware updates can sometimes reset settings or change interface elements.
- **Post-update issues:** If LEDs or the screen are deactivated after an update, you may need to re-enable them through the web configurator, as default firmware settings might disable these features.
- Refer to the official GP2040-CE documentation for detailed instructions on firmware updates and configuration.

# SPECIFICATIONS

| Feature | Detail |
|---------|--------|
|---------|--------|

|                        |   |
|------------------------|---|
| Model Number           | M16   |
| Dimensions (L x W x H) | 27 cm x 20 cm x 1 cm (10.63" x 7.87" x 0.39")                                   |
| Weight                 | 1.92 pounds (approx. 0.87 kg)   |
| Chipset                | GP-2040-CE (40nm process technology)  |
| Latency                | As low as 1ms   |
| Switches               | Gateron Low Profile Red Switches (Hot-swappable)                                |
| RGB Lighting           | 4 preset modes, customizable colors   |
| Customization          | 7-layer detachable design, DIY artwork support                                  |
| Control Modes          | X-input, Switch, PS3/D-input, PS4, Keyboard                                     |
| Special Features       | Turbo function, SOCD cleaning, M1/M2 custom buttons, embedded web configuration |





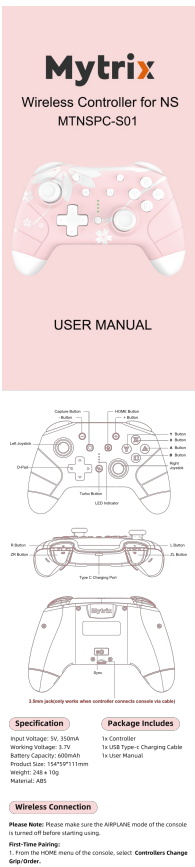
Image: Diagram illustrating the physical dimensions of the Mytrix M16 controller: 27 cm (10.63") length, 20 cm (7.87") width, and 1 cm (0.39") thickness.

# WARRANTY AND SUPPORT

Mytrix is committed to providing quality products and customer satisfaction. For technical support, warranty claims, or any inquiries, please contact Mytrix customer service.

- **Customer Service:** Refer to the Mytrix official website or your purchase platform for contact information.
- **Warranty:** Specific warranty terms may vary by region and retailer. Please retain your proof of purchase for warranty services.

## Related Documents - M16

|   |  |
|---|--|
|    | <p><a href="#">Mytrix Wireless Pro Controller User Manual</a></p> <p>Comprehensive user manual for the Mytrix Wireless Pro Controller, detailing setup, features, and customization options for compatibility with Switch, Windows PC, iOS, Android, Steam, and Steam Deck.</p>  |
|   | <p><a href="#">Mytrix Sakura Pink Pro Wireless Controller User Manual</a></p> <p>User manual for the Mytrix Sakura Pink Pro Wireless Controller, detailing its features, connectivity, and usage for Nintendo Switch, Windows PC, iOS, and Android devices.</p>  |
|  | <p><a href="#">Mytrix Wireless Pro Controller User Manual - Setup, Features, and Troubleshooting</a></p> <p>Comprehensive user manual for the Mytrix Wireless Pro Controller (MTNSPC-M01). Learn how to connect to Nintendo Switch, PC, iOS, Android, and Steam Deck. Discover features like programmable buttons, LED lighting, turbo, and vibration via the Keylinker app.</p> |
|  |  |

2. Press and hold the "HOME" button on the bottom of the, then controller for at least five seconds to power on the controller until all 4 LEDs flash. Once paired, all 4 LEDs will remain lit, and the controller will be shown on the screen.



#### Wake Up and Reconnect

Once the controller has paired with the console:

- If the console is in the SLEEP mode, the "HOME" button of the controller is able to wake up both the controller and the console.
- If the console is on, all the buttons are able to wake up the controller, the controller will reconnect to the console.

If unable to connect, please follow the three steps:

1. Turn off the AIRPLANE mode on the console
2. Remove the controller's information on the NS console (System Setting > Controllers and Sensors > Disconnect Controllers)
3. Follow the Easy Time Pairing steps

#### Controller Auto Sleep

- In the wireless connection, press and hold the HOME button for 3 seconds, the controller will be disconnected and turn into sleep mode.
- If no button is pressed within 5 minutes, the controller will automatically sleep.
- The controller sleeps when the controller is in SLEEP mode.

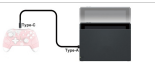
#### Wired Connection

1. Turn on the "Pro Controller Wired Communication" in the console System Settings > Controllers and Sensors > Pro Controller Wired Communication > ON

Please Note: The "Pro Controller Wired Communication" must be turned on BEFORE connecting the controller and the Dock with the cable.



2. Set the Switch console on the Dock for the TV mode. Connect the Switch Dock and the controller directly with the USB Type-C to A cable.



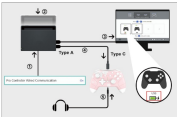
3. Press HOME button > Controllers > Change Grip/Order. The controller icon with the "USB" displayed on the screen indicates the wired connection is successful.



#### Audio Function

The controller has a 3.5mm audio port, supports 3.5mm wired headsets or microphones.

Please Note: The audio function will ONLY work in the Wired Connection mode with a Switch console. And it will NOT work under the wireless connection or when the controller is wired to a PC.



Please Note: The "Pro Controller Wired Communication" must be turned on BEFORE connecting the controller and the Dock with the cable.

- ① System settings > Controllers and Sensors > Pro Controller Wired Communication > ON
- ② Set the Switch console on the Dock for the TV mode.
- ③ Connect the Switch Dock and the controller with the USB cable.
- ④ The icon with "USB" displayed indicates the wired connection is successful.
- ⑤ Plug the 3.5mm audio jack into the audio port on the bottom of the controller.

#### Turbo and Auto-fire

Buttons Available to Set the Turbo Function:  
A/B/X/Y/L/R/ZL/ZR button



Set Up the Turbo Function:

1. Manual Turbo Function: Press and hold the Turbo button, then press any function button (ONLY to turn on the "Manual Turbo Function")
2. Auto Turbo Function: Repeat the first step above to switch to the "Auto Turbo Function"
3. Turn Off the Turbo Function: Repeat the first step after the "Auto Turbo Function" has been set.

Turn Off All the Turbo Functions for All Buttons:  
Press and hold the Turbo button for 3 seconds, then press the "subtract (-)" button to turn off the turbo functions of all buttons.

There Are Three Levels for the Turbo Speed:

- **Slow:** 1 shot/s, the corresponding LED indicators will flash at a slow speed.
- **Medium:** 1.2 shot/s, the corresponding LED indicators will flash at a medium speed (Default Level)
- **Fast:** 20 shot/s, the corresponding LED indicators will flash at a fast speed.

Adjust the Turbo Speed Levels:

Press and hold the Turbo button, push down the right joystick to decrease one grade of turbo speed; pull up the right joystick to increase one grade of turbo speed.



You Can Test and Check the Turbo Settings on a Console:  
Settings > Controllers and Sensors > Test Input Devices > Test Controller Buttons

#### Adjust Vibration Intensity

There Are Four Levels of Vibration Intensity:  
None, weak, medium, strong



Adjust the vibration intensity:

- Press and hold the Turbo button, move the left joystick UP to increase one grade of vibration intensity
- Move the left joystick DOWN to decrease one grade of vibration intensity

#### Wired Connection on STEAM

- Connect the controller to the computer with the USB cable.
- It will be recognized as the STEAM "Pro Controller" mode and can be used for supported games.

#### Functions Comparison

| Platform        | Wireless | Radio | Bluetooth | Wired | Audio Function |
|-----------------|----------|-------|-----------|-------|----------------|
| Switch Wireless | ✓        | ✓     | ✓         | ✓     | +              |
| Switch Wired    | ✓        | ✓     | ✓         | ✓     | ✓              |
| PC STEAM        | ✓        | ✓     | ✓         | +     | +              |

#### Charging Instructions

- The controller can be charged using the Switch charger, the Switch Dock, or a power adapter, a USB power supplies with the USB Type C to A cable.

- If the controller is connected with the console while charging, the corresponding channel LED light(s) on the controller will flash. The channel LED light(s) will stay lit if the controller has been fully charged.

- If the controller is not connected with the console while charging, the 4 LED lights will flash. The LED lights will go off when the controller has been fully charged.

- When the battery is low, the corresponding channel LED light(s) will flash; the controller will turn off and need to be charged if the battery is exhausted.



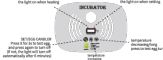


#### Calibrate the Control Sticks

- Press the HOME button > System Settings > Controllers and Sensors > Calibrate Control Sticks > Press the stick you want to calibrate
- Follow the on-screen instructions to verify the controller functionality



## Mytrix Pink Cherry Wireless Controller User Manual and Guide

This user manual provides comprehensive instructions for the Mytrix Pink Cherry Wireless Controller (MTNSPC\_S01) for Nintendo Switch. It covers wireless and wired connection setup, controller functions like turbo and vibration, charging, calibration, and troubleshooting.

|   |   |
|---|---|
| <div data-bbox="140 73 290 118"></div> <div data-bbox="127 134 308 190"><p><b>Calibrate Motion Controls</b></p><p>Press the HOME button &gt; <b>System Settings</b> &gt; <b>Controllers and Sensors</b> &gt; <b>Calibrate Motion Controls</b> &gt; <b>Calibrate the Controllers</b> &gt; P10 the controller on a horizontal plane and hold "Y" on "X" on the controller you want to calibrate.</p></div> <div data-bbox="124 197 303 275"><p><b>Please Note:</b></p><ul style="list-style-type: none"><li>• When using the wireless controller for the first time, it is recommended to have both the Controller Sticks and Motion Controls calibrated before usage.</li><li>• If the calibration fails, please press the "Y" button to restore the settings and press the "X" button to repeat the calibration steps. Power off the controller once the calibration is finished, then restart the controller and console.</li></ul></div> <div data-bbox="127 286 170 302"><p><b>Warranty</b></p></div> <div data-bbox="124 304 303 360"><p>The product comes with a 1-year limited warranty. Our goal is to achieve total customer satisfaction, we will do our best to understand our customer's requirements and always meet the requirements. If you have any questions, please do not hesitate to contact us via <a href="mailto:cs@myrixtech.com">cs@myrixtech.com</a>. We will be more than happy to assist you.</p></div> <div data-bbox="127 374 213 389"><p><b>Company Information</b></p></div> <div data-bbox="124 392 266 441"><p>Company: Myrix Technology LLC<br/>Customer Service Tel: +1 719 496 4821<br/>Customer Service Email: <a href="mailto:cs@myrixtech.com">cs@myrixtech.com</a><br/>Web: <a href="http://www.myrixtech.com">www.myrixtech.com</a><br/>Address: 13 Sandbeck Dr, Unit C, Salem NH 03079</p></div> <div data-bbox="124 445 266 468"></div> |   |
| <div data-bbox="127 752 290 766"><p><b>M16 EGG INCUBATOR USER MANUAL</b></p></div> <div data-bbox="127 768 290 790"><p><b>1. CONTROLLER FUNCTION</b></p></div> <div data-bbox="127 792 290 851"></div> <div data-bbox="127 853 290 875"><p><b>2. INCUBATOR ASSEMBLY/SETTING</b></p></div> <div data-bbox="127 878 290 900"><p><b>2.1 Put Egg</b></p></div> <div data-bbox="127 902 290 925"><p><b>2.2 Turn The Lid</b></p></div> <div data-bbox="127 927 290 949"><p><b>2.3 Plug In &amp; Connect The Water</b></p></div> <div data-bbox="127 952 290 974"></div>   | <div data-bbox="341 801 1161 833"><p><a href="#">M16 Egg Incubator User Manual: Setup, Operation, and Hatching Guide</a></p></div> <div data-bbox="341 842 1445 954"><p>Comprehensive user manual for the M16 Egg Incubator, designed to hatch up to 16 eggs. This guide provides detailed instructions on setup, controller functions, assembly, temperature setting, egg candling, cleaning, and essential incubation tips for successful hatching.</p></div> |
| <div data-bbox="127 1066 290 1088"></div>  | <div data-bbox="341 1061 1072 1093"><p><a href="#">Myrix 2.4G Wireless Keyboard and Mouse Combo User Manual</a></p></div> <div data-bbox="341 1102 1423 1173"><p>Comprehensive user manual for the Myrix 2.4G Wireless Keyboard and Mouse Combo (Model KMCS01-1, KMCS01-2), covering setup, features, product parameters, and FCC compliance.</p></div>   |