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8Bitdo 80ND

8Bitdo Ultimate 2 Bluetooth Controller Instruction Manual

Model: 80ND

INTRODUCTION

This manual provides comprehensive instructions for the 8Bitdo Ultimate 2 Bluetooth Controller, designed for use with Nintendo Switch (including Switch 2) and Windows PC. It covers setup, operation, advanced features, maintenance, and troubleshooting to ensure optimal performance and user experience.



Image: The 8Bitdo Ultimate 2 Bluetooth Controller in black, shown with its charging dock and retail packaging.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 8Bitdo Ultimate 2 Bluetooth Controller
- Charging Dock
- 2.4G Adapter
- USB Cable (USB-C)
- Instruction Manual (this document)



Image: A visual representation of the 8Bitdo Ultimate 2 Bluetooth Controller package contents, including the controller, charging dock, 2.4G adapter, USB cable, and instruction manual.

CONTROLLER LAYOUT

The 8Bitdo Ultimate 2 Bluetooth Controller features a standard layout with several advanced additions:

- TMR Joysticks: High-sensitivity joysticks designed for precision and durability, reducing the likelihood of stick drift.
- RGB Fire Ring: Customizable RGB lighting around the joysticks with multiple modes.
- D-Pad: Tactile D-pad for accurate directional input.
- Face Buttons (A, B, X, Y): Standard layout.
- Shoulder Buttons (L1, R1) & Triggers (L2, R2):L2/R2 triggers feature a mode switch for linear Hall Effect or tactile response.
- Rear Programmable Buttons: Two additional buttons on the back for custom assignments.
- R4/L4 Bumpers: Additional bumpers for enhanced control.
- Home Button: For system functions.
- Star Button: Used for adjusting RGB lighting modes and colors.
- Mode Switch: Located on the back for selecting connection modes (Bluetooth, 2.4G, Wired).

SETUP

1. Charging the Controller

Before initial use, fully charge the controller. Place the controller onto the included charging dock. The LED indicators on the controller will show charging status. A full charge takes approximately 3 hours.

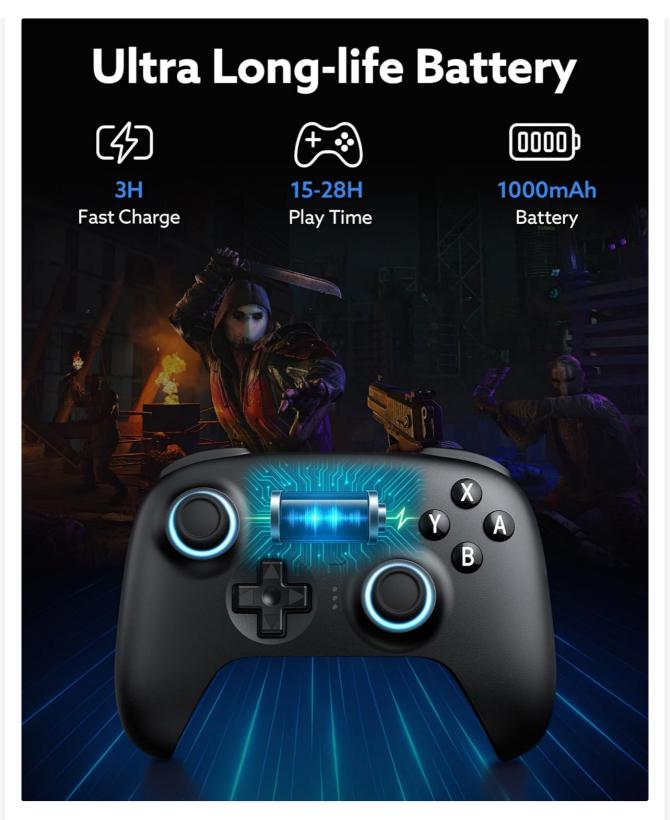


Image: The 8Bitdo Ultimate 2 Bluetooth Controller resting on its charging dock, illustrating its 1000mAh battery and fast charge capability.

2. Firmware Update

It is recommended to update the controller's firmware to the latest version for optimal compatibility and performance, especially for new console versions like Switch 2. Visit the official 8Bitdo support website for firmware downloads and instructions.

3. Connecting to Nintendo Switch

The controller supports Bluetooth, 2.4G wireless, and wired USB connections for Nintendo Switch (Switch 3.0.0 or above).



Image: A visual guide to connecting the 8Bitdo Ultimate 2 Bluetooth Controller to Nintendo Switch via Bluetooth, 2.4G, or wired USB, and to Windows PC via 2.4G or wired USB.

• Bluetooth Connection:

- 1. Set the mode switch on the back of the controller to 'S' (Switch mode).
- 2. On your Switch, go to System Settings > Controllers and Sensors > Disconnect Controllers.
- 3. Then, go to Controllers and Sensors > Change Grip/Order.
- 4. Press and hold the Pair button on the top of the controller until the LEDs begin to cycle.
- 5. The controller will appear on the Switch screen. Select it to connect.

• 2.4G Wireless Connection:

- 1. Set the mode switch on the back of the controller to 'S' (Switch mode).
- 2. Insert the 2.4G adapter into a USB port on the Switch dock.
- 3. The controller will automatically connect to the adapter.
- 4. The charging dock also contains a 2.4G adapter for convenient connection.

• Wired USB Connection:

- 1. Set the mode switch on the back of the controller to 'S' (Switch mode).
- 2. Connect the controller to the Switch dock using the USB-C cable.

4. Connecting to Windows PC

The controller supports 2.4G wireless and wired USB connections for Windows PC (Windows 10 (1903) or above).

• 2.4G Wireless Connection:

- 1. Set the mode switch on the back of the controller to 'X' (X-input mode).
- 2. Insert the 2.4G adapter into an available USB port on your PC.
- 3. The controller will automatically connect to the adapter.

• Wired USB Connection:

- 1. Set the mode switch on the back of the controller to 'X' (X-input mode).
- 2. Connect the controller to your PC using the USB-C cable.

OPERATING INSTRUCTIONS

TMR Joysticks

The controller is equipped with TMR (Tunnel Magnetoresistance) joysticks, offering enhanced sensitivity, precision, and durability. This technology is designed to minimize wear and prevent common issues like stick drift, providing a consistent gaming experience.

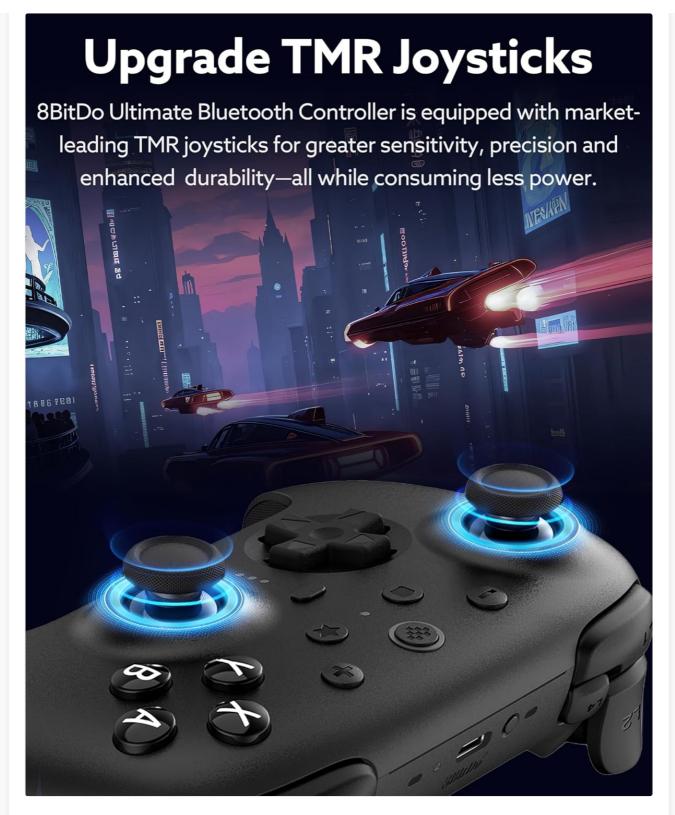


Image: A detailed view highlighting the TMR joysticks of the 8Bitdo Ultimate 2 Bluetooth Controller, emphasizing their precision and durability.

RGB Fire Ring and Lighting Modes

The joysticks feature customizable RGB lighting. You can choose from multiple colors and two lighting modes: Fire Ring and Light-tracking.

- Toggle Different Lighting Modes: Press the Star button.
- Change Light Color: Press D-Pad Left/Right + Star button.
- Adjusting Light Brightness: Press D-Pad Up/Down + Star button.

Further customization options are available through the 8BitDo Ultimate Software V2.

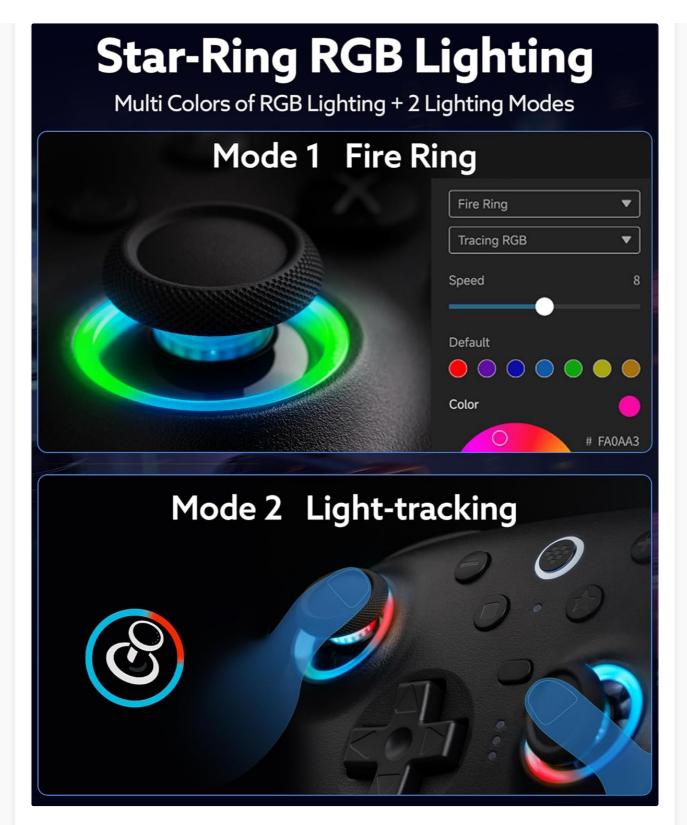


Image: Illustrations demonstrating the "Fire Ring" and "Light-tracking" RGB lighting modes available on the controller's joysticks.

Trigger Mode Switch

The L2 and R2 triggers feature a switch to toggle between two distinct modes:

- Linear Hall Effect Triggers: Provide precise, analog input, ideal for racing games or scenarios requiring fine control.
- Tactile Triggers: Offer a distinct, clicky feedback, suitable for shooting games or actions requiring a clear activation point.

Adjust the trigger mode to match your gameplay style and game genre for improved control.

Two Trigger Modes With **Mode Switch** Easily switch between linear Hall Effect triggers and non-linear tactile triggers for optimal control across different gaming scenarios. **LightSpeed Actuation** Two-Stage Trigger

Image: A visual explanation of the controller's trigger mode switch, showing the difference between linear Hall Effect triggers for precise input and tactile triggers for distinct feedback.

Motion Control, Vibration, and Turbo Function

- Motion Control: Available for Nintendo Switch only, allowing for immersive gameplay experiences.
- Vibration: Provides haptic feedback during gameplay, also available for Nintendo Switch only.
- **Turbo Function:** Assign the Turbo function to any button for rapid, repeated input. This can be configured via the 8BitDo Ultimate Software V2.

Motion control (for Switch only) Vibration (for Switch only) Turbo function



Image: A depiction of the controller's motion control and vibration capabilities, along with a note about the Turbo function.

Pro-Level Customization

The controller offers extensive customization options:

- Rear Programmable Buttons: Two buttons on the back can be mapped to various functions using the 8BitDo Ultimate Software V2.
- Additional R4/L4 Bumpers: These provide extra input options.
- Tactile Feedback: Bumpers and D-pad provide tactile feedback for precise input.
- Custom Profiles: Store up to 3 custom profiles, allowing quick switching between different button

mappings and settings for various games or users.

Download the 8BitDo Ultimate Software V2 from the official 8Bitdo website for full customization capabilities.

MAINTENANCE

Battery Information

The controller is equipped with a 1000mAh Lithium Metal battery, providing approximately 15-28 hours of play time on a single charge. Charging takes about 3 hours. For optimal battery life, avoid fully discharging the controller frequently and store it in a cool, dry place when not in use.

General Care

- Clean the controller regularly with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- Keep the controller away from extreme temperatures, direct sunlight, and moisture.
- Do not attempt to disassemble the controller, as this may void the warranty.

Troubleshooting

• Controller Not Connecting:

- Ensure the mode switch on the back is set correctly for your device (S for Switch, X for Windows).
- Verify the controller is charged.
- For 2.4G connection, ensure the adapter is securely plugged in.
- For Bluetooth, ensure your device's Bluetooth is enabled and the controller is in pairing mode.
- Try updating the controller's firmware via the 8Bitdo Ultimate Software V2.

• Input Lag or Disconnections:

- Ensure there are no obstructions between the controller and the receiver (Switch dock or 2.4G adapter).
- · Minimize interference from other wireless devices.
- Ensure the controller is fully charged.

• Stick Drift:

- The TMR joysticks are designed to prevent stick drift. If you experience this, ensure your firmware is up to date.
- Calibrate the joysticks using the 8BitDo Ultimate Software V2.

RGB Lighting Issues:

- Ensure the controller is powered on.
- Adjust lighting modes and colors using the Star button and D-Pad combinations as described in the Operating Instructions.
- Check settings in the 8BitDo Ultimate Software V2.

SPECIFICATIONS

-eature	Detail
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Model Number	80ND
Compatibility	Nintendo Switch (3.0.0 or above), Windows 10 (1903) or above
Connectivity	Bluetooth, 2.4G Wireless, Wired USB
Joysticks	TMR Joysticks
Triggers	Switchable Hall Effect / Tactile Triggers
Battery Type	Lithium Metal
Battery Capacity	1000mAh
Charging Time	Approx. 3 hours
Play Time	15-28 hours
Dimensions	147mm x 103mm x 61.3mm
Weight	246g

WARRANTY AND SUPPORT

For warranty information, technical support, and the latest firmware updates, please visit the official 8Bitdo website:

8Bitdo Support Page

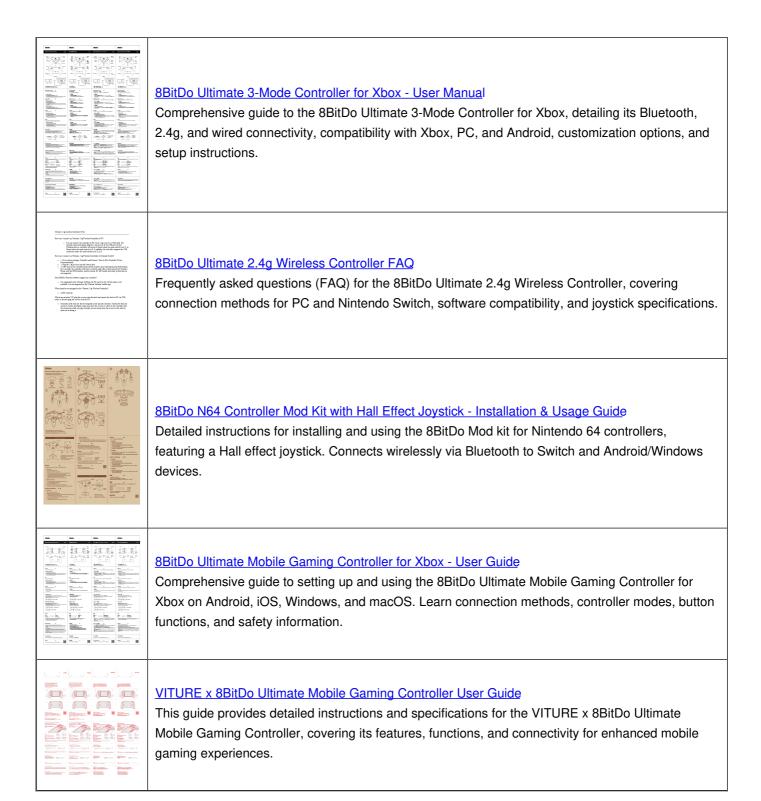
Keep your proof of purchase for warranty claims. The manufacturer provides support for product defects and operational assistance.

Related Documents - 80ND



8BitDo Ultimate 3-mode Controller for Xbox - User Manual

Comprehensive user manual for the 8BitDo Ultimate 3-mode Controller for Xbox, covering features, connectivity options (Bluetooth, 2.4GHz, Wired USB), button layout, indicator lights, and troubleshooting.



Documents - 8Bitdo - 80ND



[pdf] Test Report SAR Rating

User RF Exposure Info SHENZHEN 8BITDO TECH CO LTD ULT2N 8BitDo Ultimate 2 Bluetooth Controller 2AOWF 2AOWFULT2N ult2n

Report No.: BL-SZ24B0260-701 TEST REPORT Applicant: Address: Equipment Type: Model Name: Brand Nam ... No.6 Xinghua Road, Shekou, Nanshan District, Shenzhen, China 8BitDo Ultimate 2 Bluetooth Controller **80ND** 8BITDO 2AOWF-ULT2N 47 CFR Part 2.1093 KDB 447498 D04 v01 Nov. 12, 2024 Jan. 19, 2025 - Feb. 11....

lang:en score:26 filesize: 375.08 K page count: 9 document date: 2025-03-25



[pdf] Test Report

DELL Test Report 2 4G SHENZHEN 8BITDO TECH CO LTD ULT2N 8BitDo Ultimate Bluetooth Controller 2AOWF 2AOWFULT2N ult2n

Report No.: BL-SZ24B0260-602 TEST REPORT Applicant: Address: Equipment Type: Model Name: Brand Nam ... No.6 Xinghua Road, Shekou, Nanshan District, Shenzhen, China 8BitDo Ultimate 2 Bluetooth Controller **80ND** 8BITDO 2AOWF-ULT2N 29401-ULT2N 47 CFR Part 15 Subpart C RSS-Gen Issue 5 RSS-247 Issue 3 refer ...

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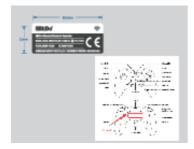


[pdf] Test Report

DELL Test Report BLE SHENZHEN 8BITDO TECH CO LTD ULT2N 8BitDo Ultimate 2 Bluetooth Controller 2AOWF 2AOWFULT2N ult2n

Report No.: BL-SZ24B0260-601 TEST REPORT Applicant: Address: Equipment Type: Model Name: Brand Nam ... No.6 Xinghua Road, Shekou, Nanshan District, Shenzhen, China 8BitDo Ultimate 2 Bluetooth Controller **80ND** 8BITDO 2AOWF-ULT2N 29401-ULT2N 47 CFR Part 15 Subpart C RSS-Gen Issue 5 RSS-247 Issue 3 refer ...

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[pdf] Label

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