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› [FLYDIGI](#) /

› [FLYDIGI DuneFox Wireless PC Controller User Manual](#)

FLYDIGI DuneFox

FLYDIGI DuneFox Wireless PC Controller User Manual

Model: DuneFox

Brand: FLYDIGI

[Introduction](#) [Setup](#) [Operation](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

The FLYDIGI DuneFox Wireless PC Controller is a versatile gaming peripheral designed for multi-platform compatibility and precise control. Featuring advanced Hall Effect joysticks and triggers, it offers a smooth, drift-free gaming experience with enhanced durability. This manual provides comprehensive instructions for setting up, operating, and maintaining your DuneFox controller.



Figure 1: FLYDIGI DuneFox Wireless PC Controller overview.

2. SETUP

2.1 Package Contents

Before proceeding, ensure all items are present in the package:

- FLYDIGI DuneFox Wireless PC Controller
- 2.4 GHz Wireless Dongle
- USB-C Charging Cable
- User Manual (this document)

2.2 Charging the Controller

The controller comes with a built-in 600mAh battery. For optimal performance, fully charge the controller before first use.

1. Connect the USB-C charging cable to the controller's USB-C port.
2. Connect the other end of the cable to a USB power source (e.g., PC, USB wall adapter).
3. The charging indicator light on the controller will illuminate red while charging.
4. The indicator light will turn green when the controller is fully charged (approximately 3 hours).

2.3 Connection Methods

The DuneFox controller supports three primary connection modes:



Figure 2: Controller showing wireless dongle connection.

- **2.4 GHz Wireless (Dongle):** Offers stable, lag-free play with a 250 Hz polling rate. Ideal for PC and compatible devices.
 - a. Insert the 2.4 GHz wireless dongle into an available USB-A port on your device.
 - b. Press and hold the center button on the controller for a few seconds to power it on.
 - c. The controller will automatically connect to the dongle. The indicator light will show a stable connection.

- **Bluetooth XInput:** Provides convenient untethered gaming with a 125 Hz polling rate. Suitable for mobile devices and systems with Bluetooth.
 - a. Ensure your device's Bluetooth is enabled.
 - b. On the controller, press and hold the Bluetooth pairing button (refer to controller layout for exact location, usually a small button near the top).
 - c. The indicator light will flash rapidly, indicating pairing mode.
 - d. On your device, search for "FLYDIGI DuneFox" in the Bluetooth settings and select to pair.
 - e. The indicator light will become stable once paired.
- **Wired Mode:** Delivers ultimate responsiveness with a 500 Hz polling rate. Best for competitive gaming or when wireless is not preferred.
 - a. Connect the USB-C charging cable to the controller's USB-C port.
 - b. Connect the other end of the cable to an available USB port on your PC or compatible device.
 - c. The controller will automatically switch to wired mode.

3. OPERATION

3.1 Multi-Platform Compatibility

The FLYDIGI DuneFox controller is designed to work across various platforms, including PC, Nintendo Switch, Switch2, Android, TV, and iOS. Please note that for Android and iOS, only games that natively support controller gaming mode are compatible.

Playable on Multiple Platforms PC/Switch/Mobile/TV

⌚ Wired ⚡ Bluetooth 🚲 Multiple connection methods



PC



Switch



TV/Android



Playable with
certain games



Figure 3: Multi-platform compatibility of the DuneFox controller.

3.2 Hall Effect Joysticks and Triggers

The DuneFox controller features custom Hall Effect joysticks and triggers, providing superior precision and durability compared to traditional components.

- **Hall Effect Joysticks:** Engineered from durable POM material, these joysticks offer smooth, drift-free performance. They are tested for 5 million actuations, ensuring long-term reliability.

Hall Effect Joystick

Smooth & Drift-Free



Figure 4: Internal view of a Hall Effect Joystick.

- **Hall Effect Triggers:** These triggers deliver a smoother and more precise response than conventional carbon film triggers, enhancing your gaming performance.

Hall Effect Triggers

Smooth and Precise



Figure 5: Close-up of Hall Effect Triggers.

3.3 Grip Vibration

The DuneFox features asymmetric dual motor vibration, finely tuned to provide an immersive and lifelike haptic feedback experience. The motors deliver ultra-high-frequency vibrations quickly without losing detail.

3.4 Rotary Axis Silicone D-Pad

The D-Pad is designed with a rotary axis silicone mechanism, ensuring effortless control and zero crosstalk for precise directional inputs.

Effortless Control, Zero Crosstalk

Rotary Axis Silicone D-Pad



Figure 6: Close-up of the Rotary Axis Silicone D-Pad.

3.5 Official Product Video

Watch the official product video for a visual guide on the FLYDIGI DuneFox Wireless PC Controller's features and operation.

Your browser does not support the video tag.

Video 1: Official product overview of the FLYDIGI DuneFox Wireless PC Controller, demonstrating its features and multi-platform compatibility.

4. MAINTENANCE

4.1 Cleaning the Controller

To ensure the longevity and optimal performance of your controller, follow these cleaning guidelines:

- Use a soft, dry cloth to wipe down the surface of the controller.
- For stubborn dirt, slightly dampen the cloth with water or a mild, non-abrasive cleaner. Avoid excessive moisture.
- Do not use harsh chemicals, solvents, or abrasive materials, as these can damage the controller's finish.
- Keep the controller away from dust and debris when not in use.

4.2 Battery Care

The controller's 600mAh battery provides up to 14 hours of playtime (without vibration). Proper battery care extends its lifespan:

- Avoid fully discharging the battery frequently.
- Charge the controller regularly, even if not in constant use, to maintain battery health.
- Store the controller in a cool, dry place when not in use for extended periods.
- Do not expose the controller to extreme temperatures.

5. TROUBLESHOOTING

If you encounter issues with your FLYDIGI DuneFox controller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Controller does not power on.	Low battery; Power button not pressed correctly.	Charge the controller fully. Press and hold the center button for a few seconds.
Controller not connecting wirelessly.	Dongle not inserted; Bluetooth not enabled/paired; Interference.	Ensure dongle is securely inserted. Re-enable Bluetooth and re-pair. Move closer to the device or away from other wireless signals.
Input lag or unresponsiveness.	Wireless interference; Low battery; Out of range.	Switch to wired mode if possible. Charge the controller. Reduce distance to the device.
Vibration not working.	Game does not support vibration; Vibration feature disabled in game/system settings.	Check game and system settings for vibration options. Ensure the game supports haptic feedback.
Buttons or joysticks not responding.	Software glitch; Physical damage.	Restart the controller and the connected device. If the issue persists, contact customer support.

If the problem persists after trying these solutions, please contact FLYDIGI customer support for further assistance.

6. SPECIFICATIONS

Feature	Detail
Model	DuneFox
Connectivity	2.4 GHz Wireless, Bluetooth XInput, Wired (USB-C)
Polling Rate (Wired)	500 Hz

Feature	Detail
Polling Rate (2.4 GHz Wireless)	250 Hz
Polling Rate (Bluetooth)	125 Hz
Joysticks	Hall Effect (POM Material, 5 Million Actuations)
Triggers	Hall Effect
Vibration	Asymmetric Dual Motor Grip Vibration
Battery Capacity	600 mAh
Playtime (without vibration)	Up to 14 hours
Charging Time	Approx. 3 hours
Product Dimensions	6.06 x 4.21 x 2.64 inches
Item Weight	14 ounces
Manufacturer	Flydigi
Country of Origin	China
Batteries	1 AAAA batteries required (included)
Date First Available	April 9, 2025

7. WARRANTY & SUPPORT

7.1 Warranty Information

FLYDIGI products are manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official FLYDIGI website. The warranty typically covers manufacturing defects for a specified period from the date of purchase.

7.2 Customer Support

For technical assistance, troubleshooting, or any inquiries regarding your FLYDIGI DuneFox Wireless PC Controller, please contact FLYDIGI customer support through their official channels. You can usually find contact information on the FLYDIGI website or on the product packaging.

When contacting support, please have your product model (DuneFox) and purchase details ready to facilitate faster service.