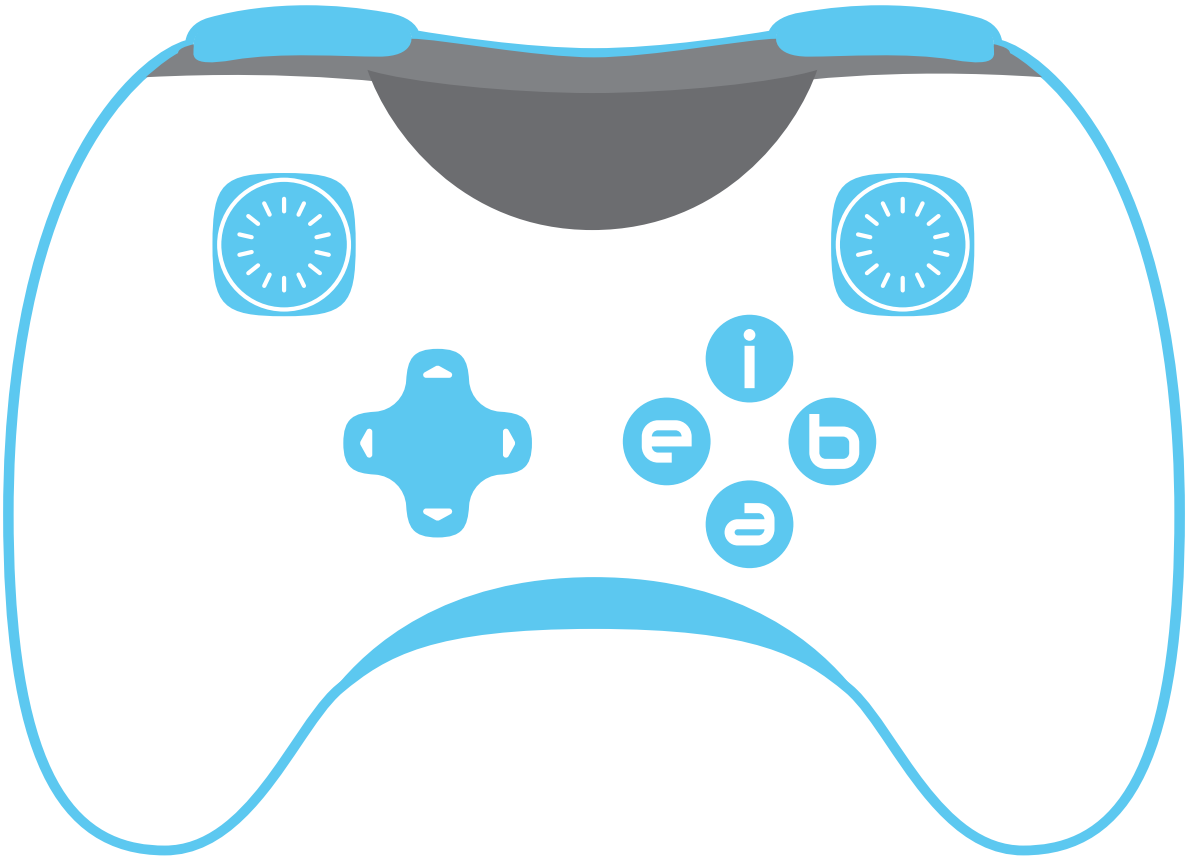
Energize Lab | Maticontroller

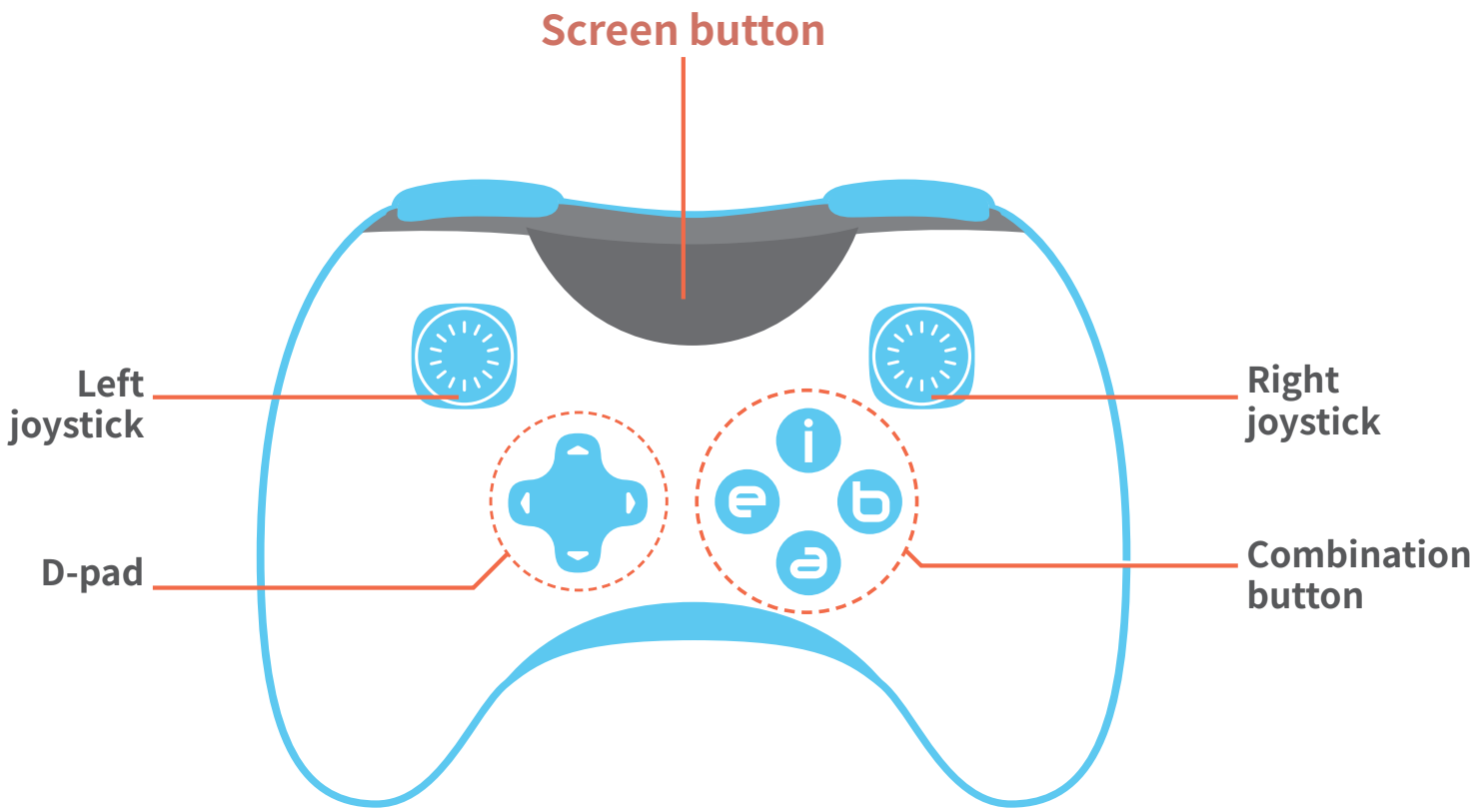


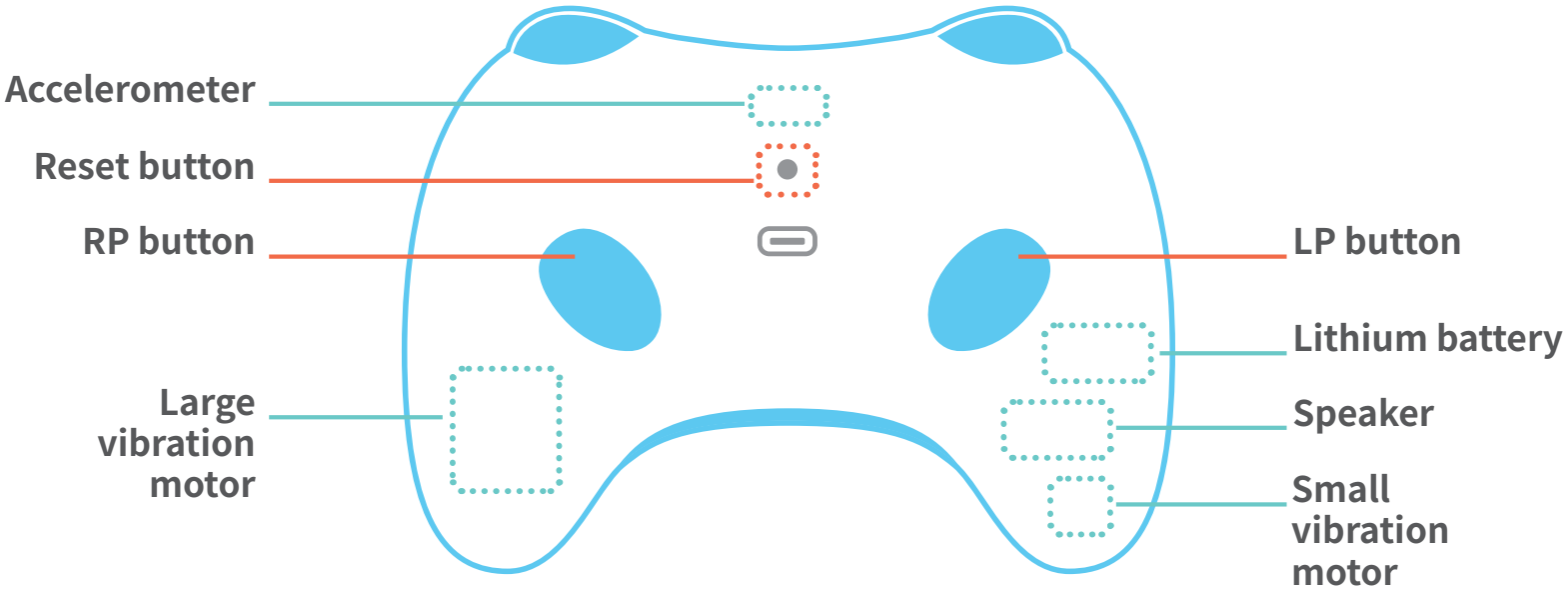
User Manual V1.01

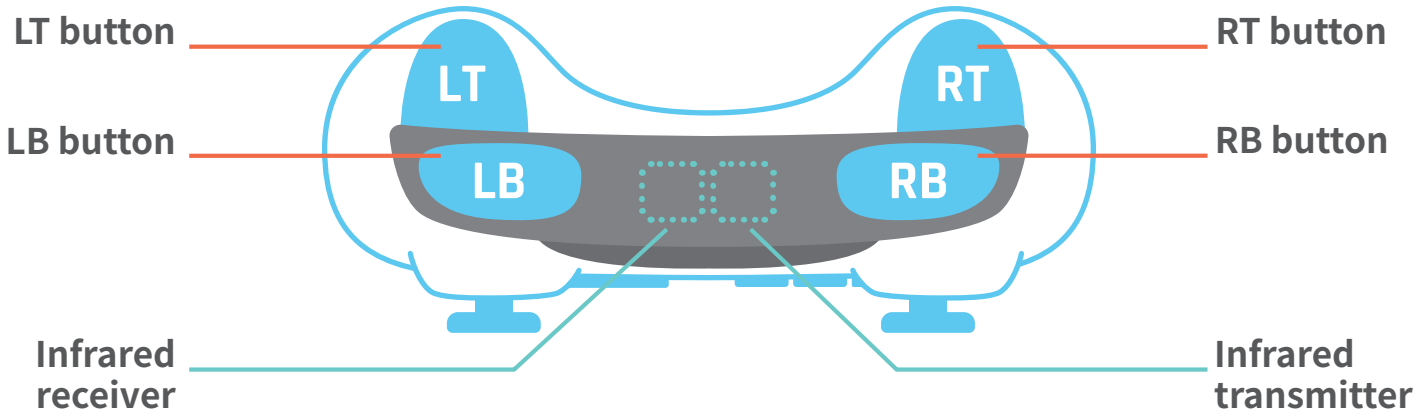
1. Get to Know Maticontroller

1.1 Instruction

Maticontroller utilizes 2.4G wireless communication technology, which enables its compatibility with all EnergizeLab products that support this radio frequency. It provides a real-time display of interactive visuals and, with its comprehensive function keys, allows for the setup and control of other devices within a maximum communication distance of 10 meters.

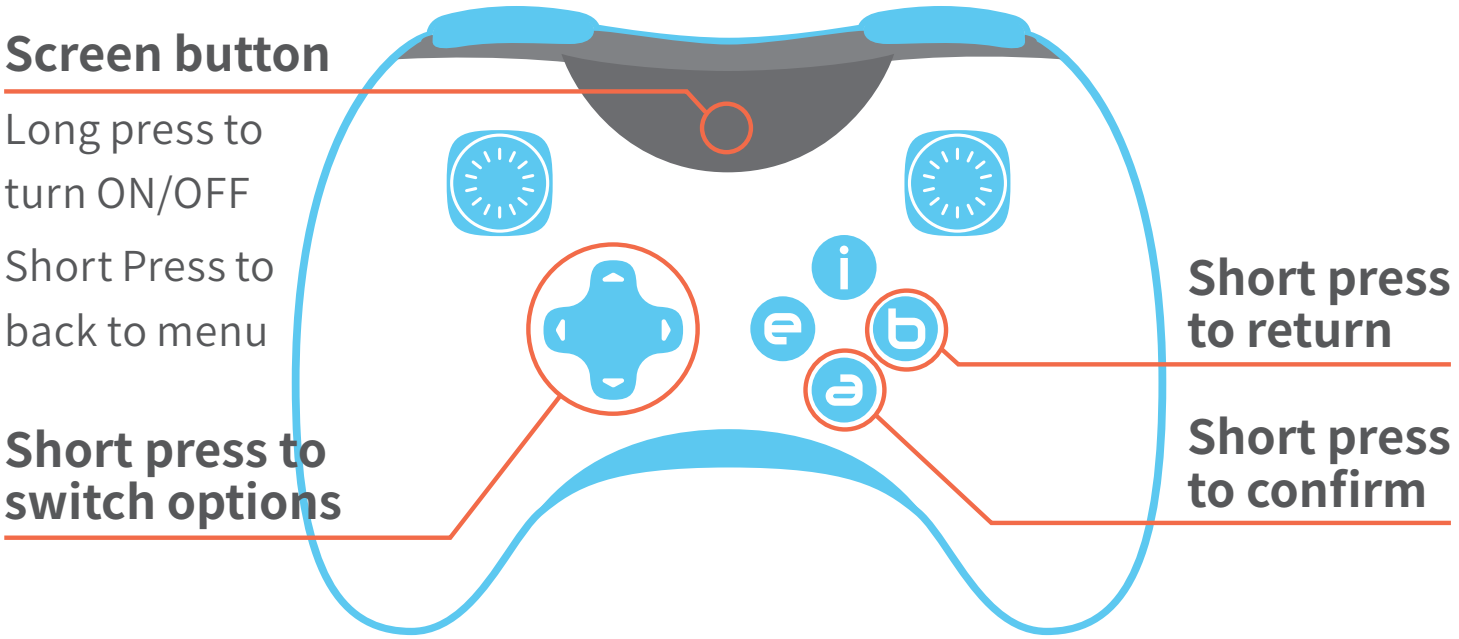






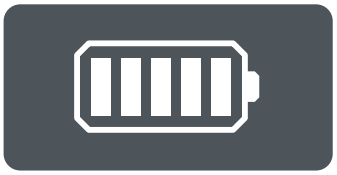
When connecting to different devices, in addition to the universal button functions listed above, there may be additional functionality. Please refer to the user manual of the connected device for specifics.

1.2 Functions



Pairing
Multiple pairing options.

Settings Mode
Maticontroller basic settings, and settings after connecting the device.



Controller Battery
Allows checking the current Maticontroller battery.

After successful pairing, the game mode of the connected device will appear.
Please refer to the user manual of the connected target device for details.

2. Pairing & Settings

2.1 Pairing

2.1.1 First-time Pairing

1 Power on/Prepare for pairing

1. Long press the screen button to power it on.

2. Prompt: Pairing is empty.

3 Press to confirm.

2.1.2 Change Pairing

1 Power on/Prepare for pairing

1. Short press the screen button.

2. Searching for pairing mode.

3 Press to enter.

2 Send pairing signal

1. Prompt: Confirm the target device is off.

2. Check the target device to confirm it is powered off.

3 Press to confirm.

3 Complete pairing

1. Target device: Long press the power button to power on.

2. The target device automatically completes pairing with the Controller.

Maticontroller can be paired with different Energizelab products, but only one device at a time. If a new device is connected, the previous device will be replaced and Maticontroller will remember the last connected device.

2.2 Connection

1 Power on/ Prepare for pairing

1. Long press the screen button to power it on.

2. Prompt: Ensure the target device is on.

2 Complete pairing

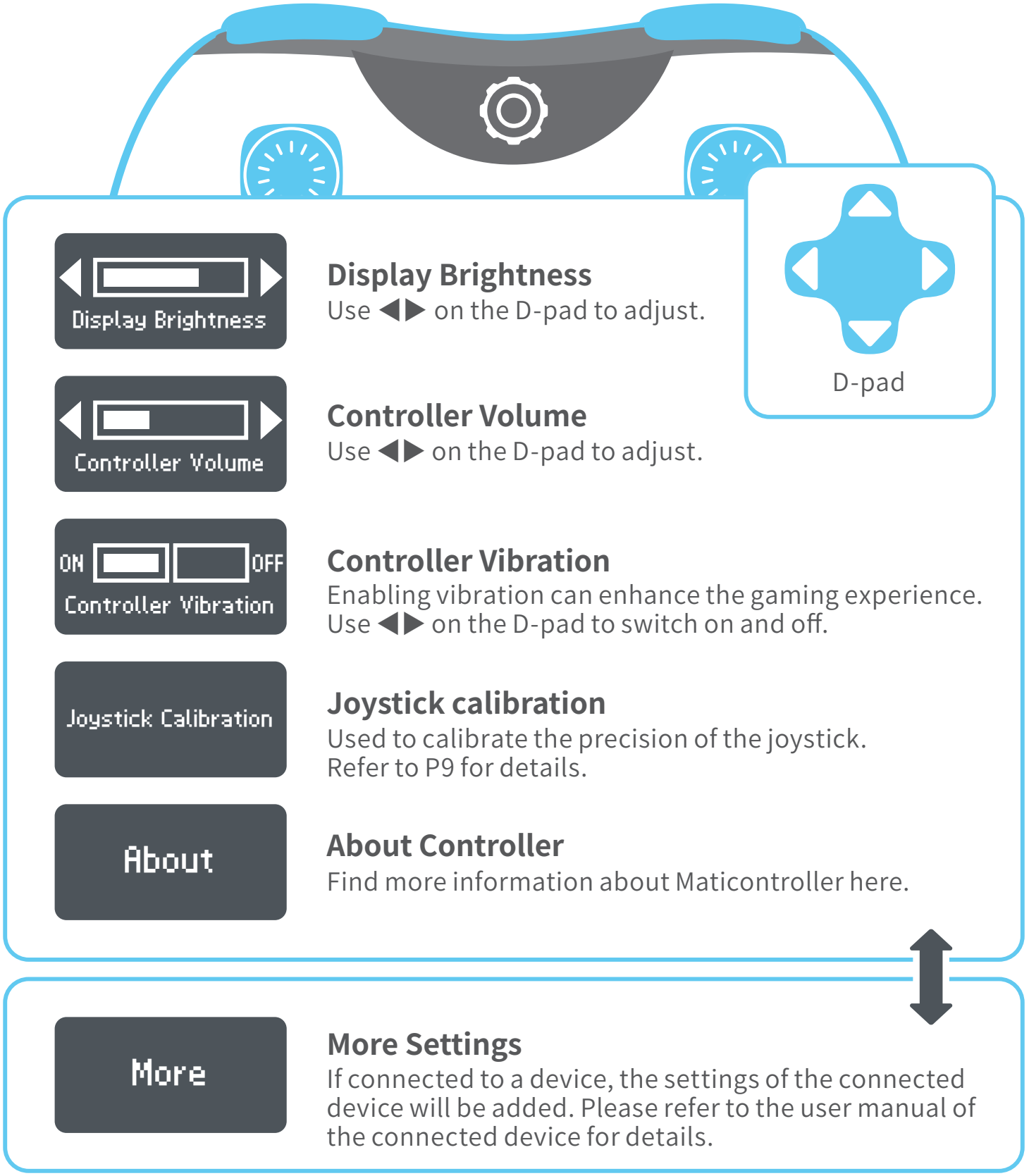
1. Target device: Long press the power button to power it on.

2. Prompt: Device detected

3. Press A to confirm.

During gameplay, if the connection between the target device's components becomes loose and causes the pairing to disconnect, it will automatically reconnect once the component is repositioned.

2.2 Personalized Settings



Display Brightness
Use ◀▶ on the D-pad to adjust.

Controller Volume
Use ◀▶ on the D-pad to adjust.

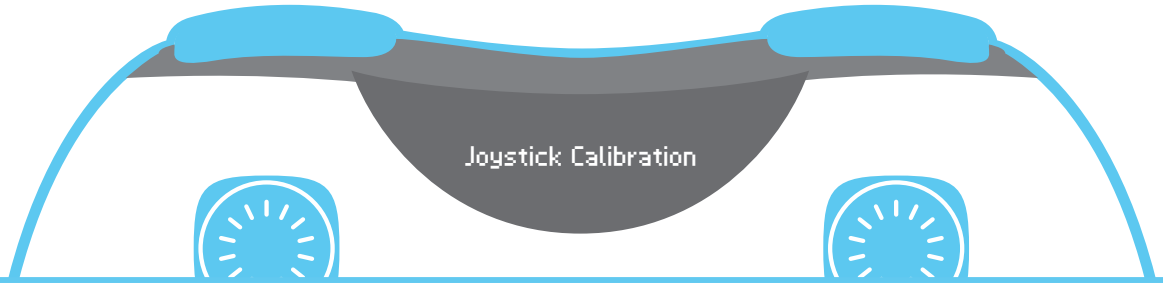
Controller Vibration
Enabling vibration can enhance the gaming experience.
Use ◀▶ on the D-pad to switch on and off.

Joystick calibration
Used to calibrate the precision of the joystick.
Refer to P9 for details.

About Controller
Find more information about Maticontroller here.

More Settings
If connected to a device, the settings of the connected device will be added. Please refer to the user manual of the connected device for details.

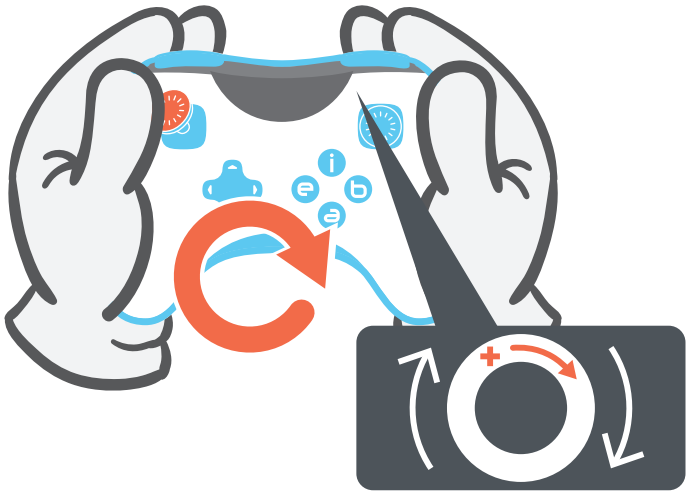
2.2.1 Joystick calibration



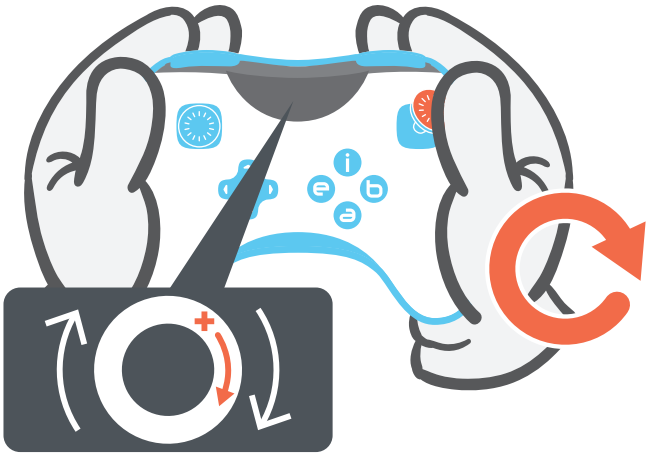
1 Reset Joystick

Do not touch the joysticks with your hands.
Long press "a" to confirm.

2 Calibration Deviation



Rotate the left joystick to make the "cross icon" on the screen continuously rotate along the outer edge of the circle for 5 rotations.



Rotate the right joystick to make the "cross icon" on the screen continuously rotate along the outer edge of the circle for 5 rotations.

3 Calibration Success All settings will be automatically saved.

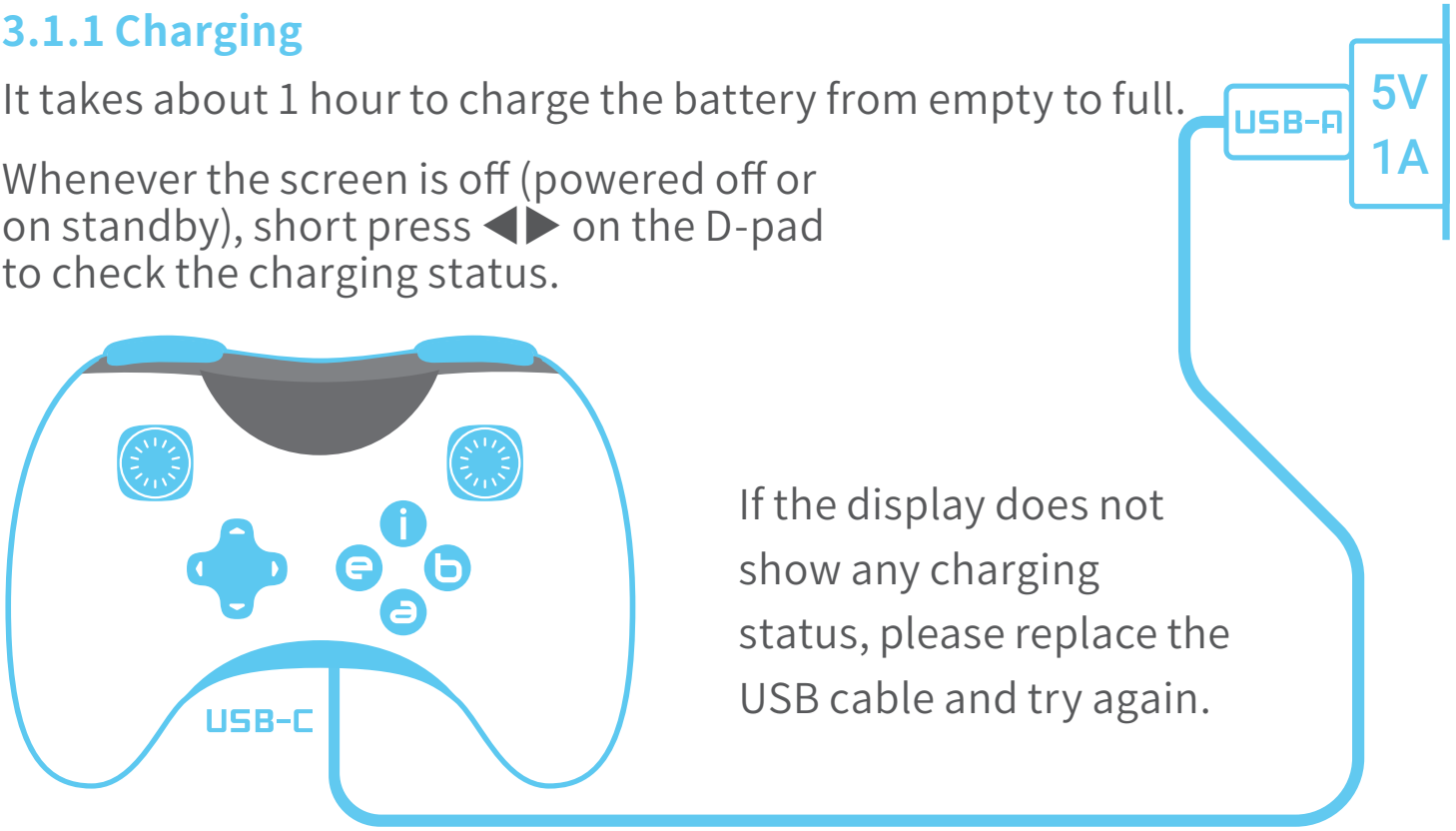
3. Security Statement

3.1 Precautions

3.1.1 Charging

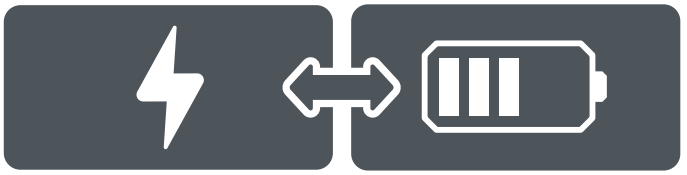
It takes about 1 hour to charge the battery from empty to full.

Whenever the screen is off (powered off or on standby), short press ◀▶ on the D-pad to check the charging status.



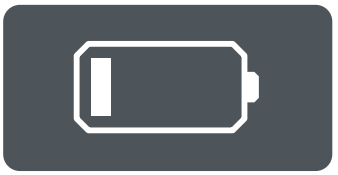
If the display does not show any charging status, please replace the USB cable and try again.

Battery Status



Charging (powered off)

Charging (powered on)



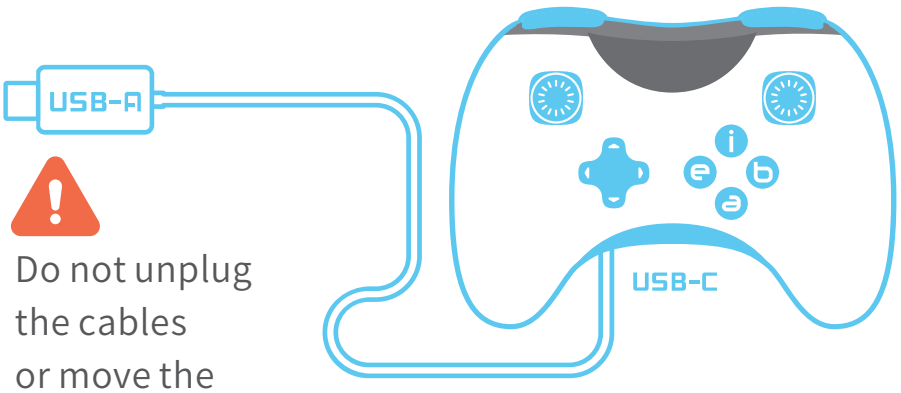
Battery <20%

Battery 100%

3.1.2 Firmware Update

1 Download Software

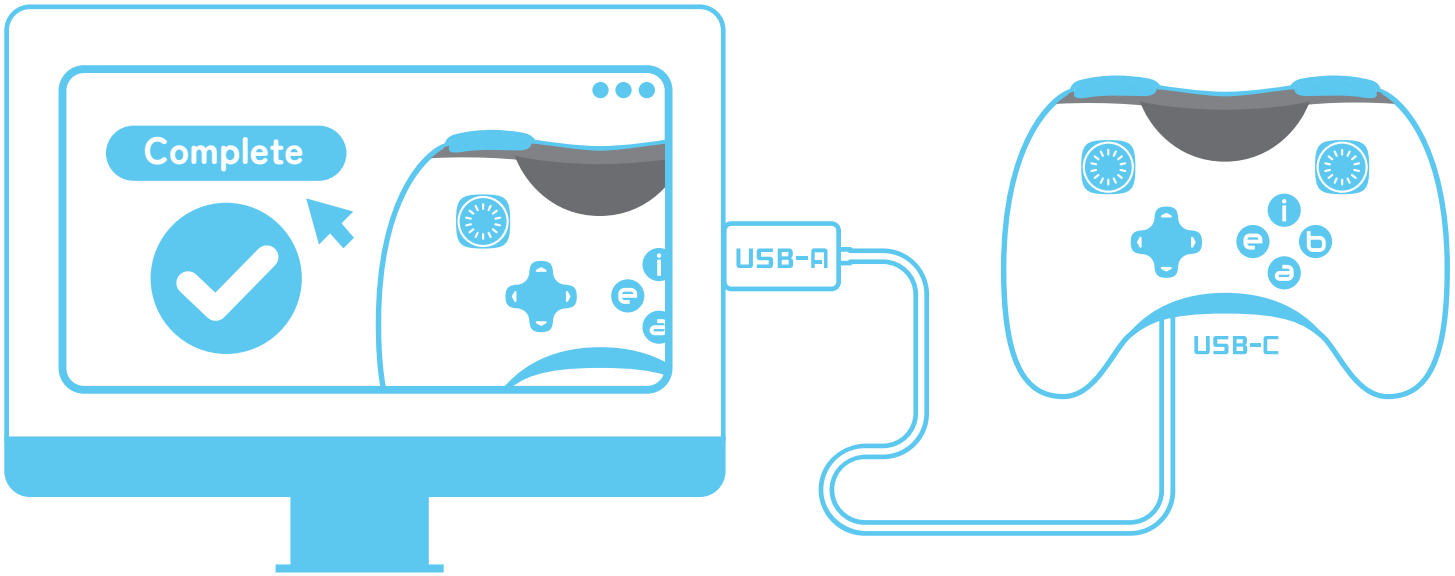
2 Connect to PC



Do not unplug the cables or move the controller during the firmware update process.

3 Start to Update

4 Update Success



Note:

If you encounter any problems during the update process, please visit energizelab.com/support for help.

If the firmware update fails, you can reset it and try to update again.

3.1.3 Reset

ATTENTION! ATTENTION!

If Maticontroller malfunctions during operation and cannot be powered off, you can perform a RESET.
Resetting only forces a power cycle(turning off and then on again), and will not delete any settings(device connections, vibration switch settings, brightness levels, etc.) stored in the Maticontroller.

1. Use a paper clip or toothpick to insert into the reset hole on the back of the Maticontroller until you hear a "click" from the reset switch, and hold it for more than 1 second.

2. Maticontroller powering off indicates the reset is successful.

3.1.4 Troubleshooting

● Cannot power on:

Cannot power on:
Check if the battery is completely drained. If necessary, use the dedicated USB power supply to confirm.
If there is power, try long pressing the screen button for 15 seconds to force a restart;
If it doesn't work, try resetting it using a paper clip etc. (P18).

● Abnormal freezing:

Check if there are any incomplete operations or improper operations in the current process, causing an inability to proceed to the next step.
If the operation is correct, try pressing the screen button to return to the home page.
If unable to return to the home page, try powering off and then restarting.
If unable to power off, try resetting it using a paper clip etc.

● Unable to control the target device:

Check if the device has been paired with the controller;
If the pairing is normal, check if the effective distance exceeds 2 meters.
If within the range, check if the hardware components are properly connected and powered on.。

● Vibration function not working:

Check if the vibration function is enabled.
If enabled, check if there are vibration settings in the game.
If so, check if the controller is in a low power state, as the vibration function will be forcibly disabled to conserve power when the battery is low.

3.2 Specifications

Connection Mode	Wireless receiver connection /2.4G mode
Communication Range	⩽ 10m
Battery Capacity	3.7V 800mAH
Input Power	DC:5V 800mA
Operating Time	Approx. 3 hours of continuous use in a fully charged state. *Actual operating time may shorten depending on game conditions (vibration intensity, operating frequency) and Maticontroller settings (display brightness, etc.).
Charging Time	Theoretically, approx. 1 hour (25° C)* from empty to full charge.
Operating Temperature	-20~+60° C
Package Size	230*140*185mm
Product Size	105.5*147.3*58 mm
Product Weight	186.6g

3.3 Wireless Transmission Statement

RF(Radio Frequency) Used	2.4G band
Certifications Obtained	Complies with frequency restrictions and has received certification for restricted use based on frequency laws.
Range of Use	⩽ 10m
Scope of Use	▶ Only supports all devices under EnergizeLab that support 2.4G communication. ▶ Depending on the device specifications and settings, some operations and content may differ.
Interference from other devices	▶ If the controller is placed too close to other devices using the 2.4G band (such as Wi-Fi), due to radio wave interference, the controller may not work properly and may experience issues like button delay, button sequence stacking, or lack of response from interference from other devices. ▶ If the radio waves from nearby base stations, etc., are too strong, the controller may not function properly.

5.7 Security Instructions

Improper use of the product can easily cause damage to the product or may endanger personal and property safety Please keep and use this product in strict accordance with the following safety instructions:

1. This product cannot be washed.
2. Be sure to use the local safety standard charger for this product to charge, to prevent electric shock or battery damage.
3. Serious fall and intense physical actions including stressing, throwing, trampling and squeezing, etc. shall be avoided.
4. Be sure to there is no liquid infiltration/splashing into the product to avoid battery, circuit damage or short-circuit.
5. Disassembly or disintegration of this product by non-professionals is strictly prohibited.
6. It is strictly prohibited to put this product into harsh environments such as water, fire (including close to stove, heating and other heat sources) or exposure to temperatures above 60°C (140°F).
7. When the weather is hot, please do not put this product in the outside unmanned car or other sun exposure places.
8. If you don't use this product for a long time, please store it in a cool and dry environment.
9. This product contains lithium-ion batteries. It is strictly prohibited to open the product's shell to avoid possible damage to the core or other hazards.
10. Please full charge this product when it's used for the first time.
11. When charging the product, you should ensure your presence, unplug the power when you leave or go out for a long time.
12. When this product is fully-charged, please remove the connection cable in time, to avoid damaging battery capacity.
13. High brightness or prolonged charging will damage Eilik's OLED screen, and even result in screen burn-in. Please keep the brightness in an appropriate range. Unplug the USB-C cable when Eilik is fully charged.

5.8 Warranty Policy

Energize Lab provides a 90-day Warranty Policy. The specific warranty services are as follows:

1. During the Limited Warranty period, Energize Lab will repair or replace any parts of the Product that are defective or malfunction during normal usage. Energize Lab reserves the right to use new or refurbished replacement parts in repair of the Product.
2. A purchase receipt or other proof of the date of purchase is required in order to claim the benefit of this warranty.
3. This limited warranty applies only to products manufactured by or for Energize Lab and that can be identified by Energize Lab's trademark, trade name or logo. The limited warranty does not apply to any non-Energize Lab product or software.
4. The Limited Warranty extends only to Purchasers who purchased the Product on official channels and is not assignable or transferable to any subsequent purchaser.
5. Notwithstanding the foregoing terms of this warranty, Energize Lab reserves the right at all times, at its sole option and discretion, to refund to you the purchase price paid by you for this product in full and final settlement of Energize Lab's obligations under this warranty.

Energize Lab will not provide warranty services in the following circumstances:

1. Improper storage, misuse, collision, negligence, abuse, exposure to liquid, infusion, moisture, accident, incorrect use of parts other than the product;
2. External causes and force majeure such as fire, flooding, sand, dirt, windstorm, lightning, or earthquake;
3. Exposure to extreme weather conditions, theft, loss, or improper use of any electrical source;
4. Improper testing, operation, maintenance, installation, or any alteration or modification of Product;
5. Cosmetic damage, including but not limited to scratches, dents or broken plastic, or normal wear and tear;
6. Usage of product other than its normal and customary manner;
7. The term of validity has exceeded 90 days.

5.8 Warranty Policy

FCC Compliance Statement

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off
and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference.
(2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

EU WEEE Statement

The symbol means that this product shall be disposed of separately from household waste according to local laws and regulations in the EU. When this product reaches its end of life, take it to a collection point designated by local authorities for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

UK Declaration of Conformity

Shenzhen Zhuneng Technology Co., Ltd. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Toy (Safety) Regulations 2011 and Electromagnetic Compatibility Regulations 2016.

EU Declaration of Conformity

Shenzhen Zhuneng Technology Co., Ltd. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU.

PSE Certification

Shenzhen Zhuneng Technology Co., Ltd. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of Ministerial Ordinance For Determining Technical Standards For Electrical Appliances.

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