



Introduction

Thank you very much for purchasing the REALFORCE keyboard.
This instruction manual describes how to operate the keyboard and precautions on safe handling.
Please read this instruction manual carefully before using the product, and use it correctly and safely.

System Requirements

- Bluetooth Connection**
- Windows 10~
 - macOS 10.15~
 - iOS 14.0~
 - iPad OS 14.0~
 - Android 10.0~
 - For Bluetooth connection, the connected device to be used shall support Bluetooth 4.0 or later.
- USB Connection**
- Windows 10~
 - macOS 10.15~

Specifications

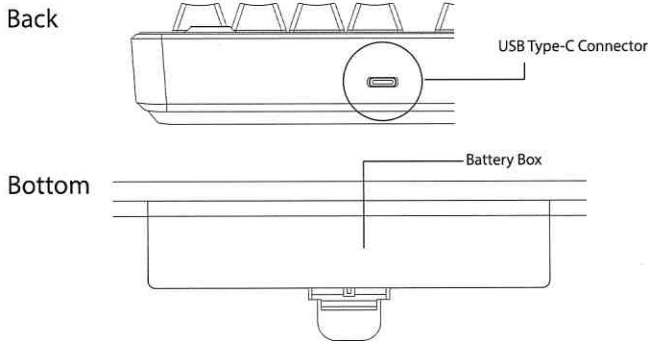
Switch method	Capacitance method
Stroke	4.0 mm
Interface	USB 2.0, Bluetooth Ver 5.0
Power supply (when connected via USB)	DC5V, 200 mA (MAX)
Cable length	Approx.1.8 m
External dimensions and weight of full keyboard	464.5 mm (width) x 162.7 mm (depth) x 38.8 mm (height), approx. 1.6 kg
External dimensions and weight of Tenkeyless Keyboard	378.7 mm (width) x 162.7 mm (depth) x 38.8 mm (height), approx. 1.3 kg
Compatible batteries	2 AA batteries (AA alkaline batteries, AA manganese batteries, AA nickel metal hydride batteries)
Operating time	Estimated when using alkaline batteries: Approx. 3 months (This is a test value in our environment, not a guaranteed value.)

Check on the Package Contents

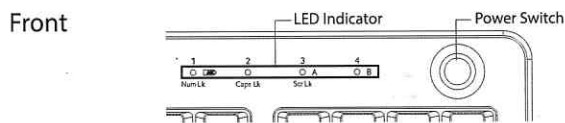
The product package contains the following items. Before you start the work, make sure you have everything. In addition, we have taken all possible measures to ensure correct packing, but if you find any missing or damaged items, please contact the REALFORCE Customer Center.

- Keyboard body x1
- AA alkaline batteries (for operation check) x2
- USB cable x1
- Instruction Manual (this manual) x1

Names and Functions of Each Part



Name	Explanation
USB Type-C Connector	You can use a USB Type-C cable to connect this product to the device you use via USB, or to supply power instead of a battery. See "When Using a USB Type-C Cable" for more information. There is no charging function for rechargeable batteries.
Battery Box	Insert the batteries. See "When Using Batteries" for more information.



Power Switch

Operation	Function
Press and hold for 1 second or longer	Power on / off *To prevent malfunction, if you press and hold for 10 seconds or more, the power will not turn on.
Short press	Effective surface switching of key layout
Fn key + press and hold for 1 second or longer *1	Switching of simple mode enabled / disabled Simple mode is a simple keyboard mode that does not allow you to use dedicated applications, N-key rollover, or multimedia keys. It is disabled in the initial state. Four LEDs light up when switching.

*1) For the Fn key used to switch to the simple mode, use the key on which Fn is printed regardless of keymap replacement.

LED Indicator

Function	LED Status	Pattern (○: lit, ●: off)
Save Settings	LED lights up in white and lights in order (turns off afterwards)	○●●●→●○●●→→●●○●→●●●○→→●●○●→●○●●→...
APC Settings	LED lights up according to the setting (turns off afterwards)	Batch setting 1 (blue) ○●●● Batch setting 2 (green) ●○●● Batch setting 3 (yellow) ●●○● Batch setting 4 (red) ●●●○ Individual setting 1 (white) ○●●● Individual setting 2 (light blue) ●○●●
Battery Alert (once every 10 seconds)	Red flashing (once every 10 seconds)	○●●●
Power Off (battery dead)	Red lit (turns off afterwards)	○●●●
Power Off (power switch)	Yellow lit (turns off afterwards)	LED lights up according to the last connected slot number *1
Power Off (auto)	Yellow lit (turns off afterwards)	LED lights up according to the last connected slot number *1
Pairing Mode (waiting for slot selection)	Blue flashing (slow)	○○○○
Scan Mode (waiting for slot connection)	Waiting for pairing: Blue Flashing (fast) Waiting for connection: Blue lit	LED lights up according to the slot number under connection attempt *1
Check on the Slot Connected	Blue lit (turns off afterwards)	LED lights up according to the slot number under connection attempt *1
Check on the Battery Level	Yellow lit (turns off afterwards) Red is lit on less than 25%.	Less than 25% ○●●● 25% or more ○○●● 50% or more ○○○● 75% or more ○○○○
Eco Mode Confirmation / Setting Switching	Yellow lit (turns off afterwards) Red is lit on OFF.	Lv 1 ○●●● Lv 2 ○○●● Lv 3 ○○○● Lv 4 ○○○○ OFF ○○○○
When Switching the Key Layout	White lit (turns off afterwards)	A-side ●●○● B-side ●●●○
NumLock CapsLock ScrollLock	Always lit in green	—

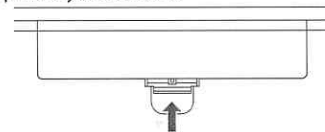
*1) Lighting pattern corresponding to the slot number

- Slot 1 ○●●●
- Slot 2 ●○●●
- Slot 3 ●●○●
- Slot 4 ●●●○
- USB ○○○○

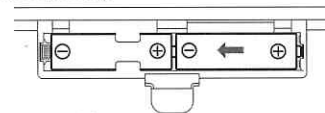
Turn on the power

When using batteries

- While pushing the lever of the battery box cover on the bottom of the keyboard in the direction of the arrow, pull it up toward you to remove it.



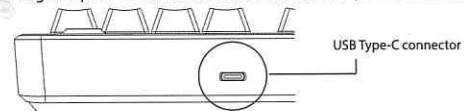
- Set the battery orientation as shown in the figure and insert it by sliding it in the direction of the arrow.
Check the positive and negative directions of the two batteries and insert them correctly.
Caution: See "Precautions on Battery."



- Install the battery box cover as before.
Close the battery box cover until you hear a click.
- Press the power switch on the front of the keyboard for about 1 second to turn it on.

When using a USB Type-C cable

- Connect the included USB cable to the USB port on your computer body and the keyboard body.
- The USB keyboard is automatically recognized by your OS, so install the OS standard keyboard driver.
Installation might require an internet connection environment, access to Windows Update, etc.



Operation after power on

- If there is a connection history
⇒ Automatically connects to the last connection destination.
- When pairing information is not registered, such as when starting for the first time
⇒ When power is supplied using batteries, pairing with pairing slot 1 will start automatically.
When power is supplied using a USB cable, the USB connection is automatically established.

Use keyboard (Bluetooth connection)

Connect this product to the device to be used via Bluetooth.

When using the Bluetooth USB adapter, refer to the instruction manual of the Bluetooth USB adapter to enable the Bluetooth function.

After connecting this product to the device, driver software installation will start.

It may take a few minutes for this product to be ready for use, but please wait.

1. Start pairing

Pairing is the process of registering device information on both this product and the device to be used so that they can communicate with each other.

This product can register pairing information for up to 4 devices in pairing slots 1 to 4.

By registering pairing information for multiple devices, you can easily switch the device to be used.

Connecting for the first time

Press and hold the power switch of this product (1 second or longer).

⇒ Powers on and automatically pairs

Start pairing with number 1.

At this time, LED indicator 1 flashes blue fast.

Tips

If power is supplied using a USB cable when pairing information is not registered, this product will automatically enter the USB connection state. To switch from this state to a Bluetooth connection, refer to "Add a device to be used" and operate from step 2.

Add a device to be used

1. Press and hold the power switch of this product (1 second or longer).

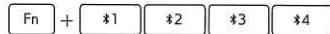
⇒ The power turns on.

2. Hold down Fn and press P.



⇒ Pairing mode is entered and the LED indicator flashes blue.

3. Register pairing information while pressing Fn
Press the number key on the slot (one of 1 to 4).



⇒ Pairing starts and the LED indicator flashes blue fast.
The pairing information of the device to be used is registered in the specified pairing slot.

If you specify a slot for which pairing information has already been registered, only the most recently registered device will be valid.

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2. Connect keyboard

Register pairing information in both this product and the device to be used, and connect this product and the device.

Windows® 10

- Click "Settings" in the start menu.
⇒ "Windows Settings" screen is displayed.
- Click "Devices."
⇒ "Bluetooth and Other Devices" screen is displayed.
- Click "Add Bluetooth or other device."
⇒ "Add Device" screen is displayed.
- Click "Bluetooth."
- Click "REALFORCE_n (*1)" and then click the [Next] button.
- Enter the displayed number for pairing on this product and press Enter.
⇒ Connection is complete.

Android™

Menu names or screen names vary depending on the device used.

- Tap "Settings" → "Connected device".
- Tap "Pair with new device".
- Tap "REALFORCE_n (*1)".
⇒ The several digit number for pairing is displayed.
- Enter the displayed number for pairing on this product and press Enter.
⇒ When "Connected" is displayed in "REALFORCE_n", connection is complete.

macOS

Menu names or screen names vary depending on the operating system version.

- Click "System Preferences" in the "Apple" menu
→ "Keyboard."
⇒ "Keyboard" screen is displayed.
- Click "Set Bluetooth Keyboard" button.
⇒ "Device" screen is displayed.
- Click "REALFORCE_n (*1)" and click [Connect] button.
- Enter the displayed number for pairing on this product and press Enter.
- Click [Connect] button.
⇒ When "Connected" is displayed, the connection is complete.
- If "Keyboard Setup Assistant" screen is displayed, click [Continue].
- Operate in accordance with the on-screen instructions displayed.
- When "Select keyboard type" is displayed, select "JIS (Japanese)" and click [Complete] button.

iOS / iPadOS

Menu names or screen names vary depending on the version of iOS or iPad OS.

- Tap "Settings" → "Bluetooth".
- Turn on "Bluetooth."
- Tap "REALFORCE_n (*1)".
- Enter the displayed number for pairing on this product and press Enter.
⇒ When "Connected" is displayed in "REALFORCE_n", connection is complete.

*1: The key number (1 to 4) for registering pairing information is displayed in n.
The string part of REALFORCE can be changed using a dedicated application.
⇒ The several digit number for pairing is displayed.

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Function key

Key operation	Function
Fn +	Start pairing mode
Fn +	Cancel pairing mode
Fn +	During pairing mode: Start slot 1 pairing During connection: Connect to the device in slot 1, start pairing if there is no registration
Fn +	During pairing mode: Start slot 2 pairing During connection: Connect to the device in slot 2, start pairing if there is no registration
Fn +	During pairing mode: Start slot 3 pairing During connection: Connect to the device in slot 3, start pairing if there is no registration
Fn +	During pairing mode: Start slot 4 pairing During connection: Connect to the device in slot 4, start pairing if there is no registration
Fn +	Start connecting to USB
Fn +	During pairing mode: Delete all pairing information ⇒ USB connection if USB cable is connected ⇒ Power off if USB cable is not connected
Fn +	Check the connected slot with the LED indicator
Fn +	Check the battery level with the LED indicator
Fn +	Eco mode switching * Lv1 ⇒ Lv2 ⇒ Lv3 ⇒ Lv4 ⇒ OFF ... (The factory state is Lv2.)
Fn +	Save the changed settings * If you save the settings, they will be retained even if the power is turned off and then on again.
	Mute
	Volume down
	Volume up
	APC * 0.8mm in a batch ⇒ 1.5mm in a batch ⇒ 2.2mm in a batch ⇒ 3.0mm in a batch ⇒ Individual setting 1 ⇒ Individual setting 2 ... (The factory state is 2.2 mm in a batch.)

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Eco Mode

This product is equipped with a power saving function, and the operation can be selected in four levels of eco-mode.

Battery saving can be achieved by setting the settings according to usage.

Eco Mode	LEDs for Num Lock / Caps Lock / Scroll Lock	If there is no key entry for a certain period of time	time
Lv1	Not lit	Power Off	10 minutes
Lv2	Lit	Power Off	10 minutes
Lv3	Lit	Power Off	30 minutes
Lv4 (customizable)	Lit	Wireless Off	30 minutes
OFF	Lit	—	—

Power Off: The power will turn off automatically. If the power button is used to turn on the power, it will be reconnected.

Wireless Off: It automatically turns off the wireless and turns off the LED as well. If any key is pressed, it will be reconnected.

* The power does not turn off automatically during USB power supply.

* The operation in Lv4 can be customized with the use of a dedicated application.

In the custom settings, "Constant Power On" can also be selected (disable the automatic off on power on and wireless).

* Regardless of the eco mode setting, the power will be automatically turned off in 3 minutes in pairing mode and 1 minute if the registered device cannot be connected (wireless off in the case of "Constant Power On" setting).

Key Layout

Some keys have different default functions on side A and side B.

Key	side A		side B	
	Normal	Fn +	Normal	Fn +
F1	F1	Brightness -	Brightness -	F1
F2	F2	Brightness +	Brightness +	F2
F3	F3	Rewind the Media	Rewind the Media	F3
F4	F4	Play or Pause	Play or Pause	F4
F5	F5	Forward the Media	Forward the Media	F5
F6	F6	Mute	Mute	F6
F7	F7	Volume Down	Volume Down	F7
F8	F8	Volume Up	Volume Up	F8
F13	F13	Eject	Eject	F13
F19 (FULL Keyboard)	F19	APC	APC	F19

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In this manual, the following displays are used to ensure the safe and correct use of this product and to prevent any harm or damage being inflicted on the customer.

Warning Display	Explanation
	This means that improper handling could lead to a risk of death or serious injury.
	This means that improper handling could lead to a risk of death or serious injury.
	This means that improper handling could lead to a minor injury or property damage.
	The symbol indicated by a triangle indicates that it is a warning or a matter requiring attention. Inside the symbol, there is a picture showing the specific warnings.
	The symbol shown by the diagonal line in the circle indicates that the act should not be done (prohibited act). Inside or beside the symbol, there may be a picture showing specific instruction.
	The white symbol shown inside a black painted circle indicates that the instruction must be followed. Inside the symbol, there may be a picture showing the specific instruction.

For safe use

The important warnings regarding this product are as follows.
To use this product safely, be sure to follow the items described below.

	Do not get it wet with liquids such as water, seawater and drinking water. It could cause the battery to overheat, burst, or catch fire.
	Do not use, store, or leave the keyboard or batteries in places with high temperatures (near a fire, near heating equipment, in direct sunlight, in cars under the scorching sun, etc.), in places with low temperatures, or in places with high altitude and low atmospheric pressure. It could cause the battery to leak, overheat, burst, or catch fire.
	Do not burn the keyboard or batteries, or throw them into a fire. It could cause the battery to overheat, burst, or catch fire.
	Do not pierce the keyboard or battery with a nail, hit it with a hammer, step on it, subject it to strong impacts, crush it with a machine, or cut it. It could cause the battery to overheat, burst, or catch fire.
	Do not put it in a cooking device such as a microwave or a high-pressure container, or place it on an electromagnetic cooker (IH cooker). It could cause the battery to overheat, burst, or catch fire.
	Do not use the wrong type of battery (e.g., some types of lithium batteries) that could disable the protection function. It could cause the battery to overheat, burst, or catch fire.
	If the battery liquid leaks, do not let the liquid touch your face or hands. It could cause blindness or skin injury. If liquid, etc. gets into your eyes or mouth, or if it gets on your skin or clothing, immediately wash it off with clean water. In addition, if it gets into your eyes or mouth, consult a doctor immediately after cleaning.

Caution

	It could cause an unexpected accident due to falling, etc. so install it on a flat and non-slip surface. It could fall, possibly causing injury.
	Do not install it within reach of small children. It could cause injury.
	Do not place heavy objects on the keyboard or work on the keyboard. It could cause failure or injury.
	Install it away from strong magnetic fields and noise sources. Also, avoid static electricity and select a material that does not generate static electricity for the floor material, or the desk where it is to be set. Static electricity could cause the keyboard to malfunction.
	We recommend that you set the keyboard and computer or mobile device in as visible a place as possible. If there is an obstacle (wall, metal plate, etc.) that blocks radio waves, communication might not be possible or the communication speed could slow down.
	If you suddenly move the keyboard from a cold room to a warm room, condensation could occur. If you continue to use it as it is, it could cause input failure, so leave it in a warm room for about 1 to 2 hours to allow its inside to dry before using it.
	If you take it outdoors in the rain or snow, be careful not to get it wet. If the keyboard gets wet, wipe it off or allow it to dry before using it.
	Do not connect or disconnect the USB cable of this product with wet hands. Also, do not process or forcibly bend it. It could cause fire or electric shock.
	Before using this product, check if "other radio stations" are operating nearby. If radio wave interference occurs between this product and "other radio stations"; change the place of use or stop using this product. * "Other radio stations" are industrial, scientific, and medical equipment that use the same 2.4GHz band as this product, as well as other similar radio stations, premises of radio stations for mobile object identification used in factory production lines, etc. that require a license, specific low power radio stations that do not require a license, and amateur radio stations.

■ Precautions on Battery

- Use AA alkaline batteries, AA manganese batteries, or AA NiMH secondary batteries for this product.
- Do not use old and new batteries together. It could cause liquid leakage or rupture. Do not use different types of batteries at the same time. It could cause liquid leakage or rupture.
- Remove the batteries when this product will not be used for a long period of time. It could cause liquid leakage or malfunction.
- Keep it out of reach of small children.
- Do not heat the battery. Also, do not disassemble or throw it into water.
- Discontinue use of old or weakened batteries and dispose of them in accordance with the ordinances and regulations of your area.

■ How to Care

If this product becomes dirty, wipe it with a dry and soft cloth.
The use of volatile liquids such as thinner, benzene and alcohol could cause deterioration or discoloration.

■ About this Product

The switch part of this product contains a conical spring. In rare cases, a spring sound could be generated when the key is pressed, but please note that it does not affect the functions such as input.

Warning

	In the following cases, immediately turn off the power and stop using it. Remove the USB cable that connects this product, check that the battery is free from any abnormality such as heat generation, and then remove the battery from the product after being careful not to get burned. Continued use could cause a fire or electric shock. <ul style="list-style-type: none"> • In case you drop the keyboard • In case smoke comes out from the keyboard or the outside of the keyboard gets abnormally hot • In case you smell a strange odor • In case foreign matter (liquid, a piece of metal such as clip, etc.) gets inside the keyboard
	If the battery liquid leaks or there is a strange odor, stop using it immediately and keep away from fire and other flammable hazards. It could cause the battery to burst or catch fire.
	Do not disassemble or modify the keyboard. If you disassemble the keyboard yourself, the warranty will be voided and we will not accept any liability for damage caused by the disassembly.
	This keyboard is for domestic use only. Please do not use it overseas.
	Do not install the keyboard in the following hot and humid places or in poorly ventilated and dusty places. The high temperature could cause the cover, etc. to overheat, deform, melt, or cause an electric leakage or fire. Use it in a place with good ventilation and airflow. <ul style="list-style-type: none"> • Places near heating appliances such as stoves and heaters, and places near flammable materials such as volatile combustibles and curtains • Places where oily smoke is likely to occur, such as kitchens • Wet places such as bathrooms, shower rooms, and pools • Places exposed to direct sunlight, inside cars under the scorching sun, and places that get hot, such as near heating equipment
	Do not allow your child to easily touch the cable. If it accidentally gets wrapped around your neck, it could cause suffocation. Also, do not allow children to easily touch small parts such as keycaps. If swallowed by mistake, it could cause suffocation.
	Do not use the keyboard while driving a car. It could cause an accident.
	Do not use air spray or spray containing alcohol for cleaning purposes, etc. The strong air blown from the spray could cause dust to get inside the keyboard and cause a malfunction. In addition, there is a risk of ignition due to sparks caused by static electricity, etc.
	Do not use it in places where radio wave usage is restricted (medical facilities, etc.) according to the instructions of those places. It could affect electronic devices, medical devices, and implantable medical devices (cardiac pacemakers, etc.). This is a general characteristic of equipment using radio waves, not a characteristic specific to the keyboard.
	Do not use it with equipment that could cause serious damage. In rare cases, it could malfunction, slow down, or stop working due to outside influences such as radio waves of the same frequency or radio waves of mobile phones.
	The use of wireless keyboards in aircraft is prohibited by aviation law as it could interfere with the safe operation of the aircraft. Please remove the battery of the keyboard body before boarding and do not use it after boarding. * Please note that we are not responsible for any accident or social damage caused by the failure, etc. of this product.

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