



## Shenzhen Yuyuanxin Electronic Technology TNS-0163 Switch Bluetooth Controller Instructions

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Shenzhen Yuyuanxin Electronic Technology TNS-0163 Switch Bluetooth Controller



Product No.: TNS-0163

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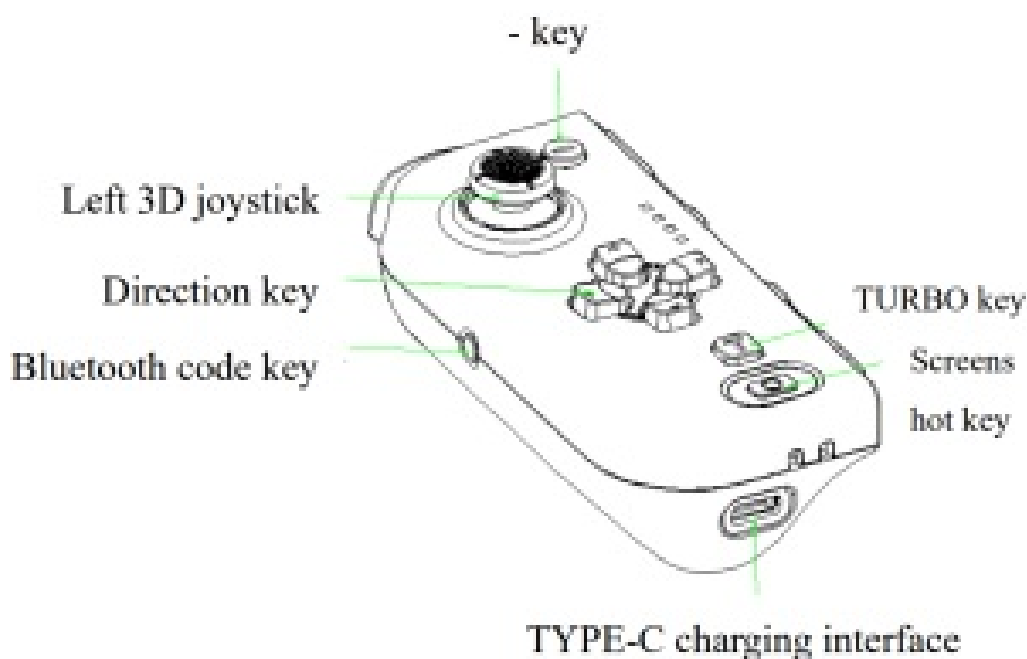
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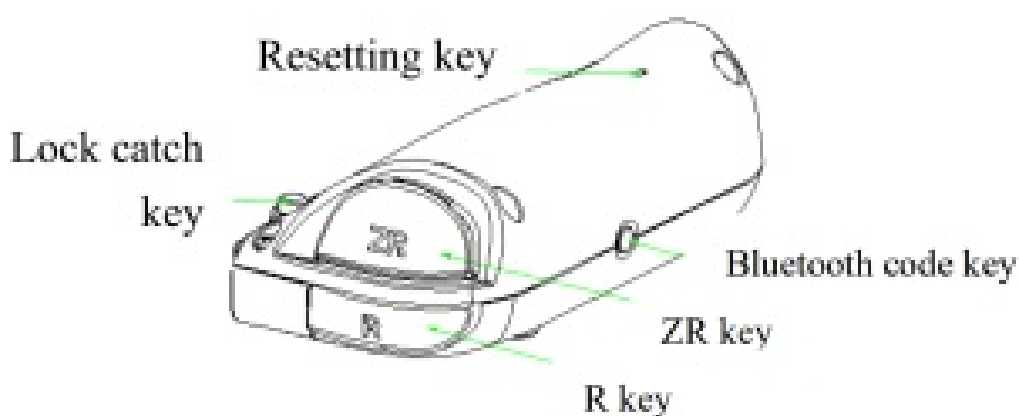
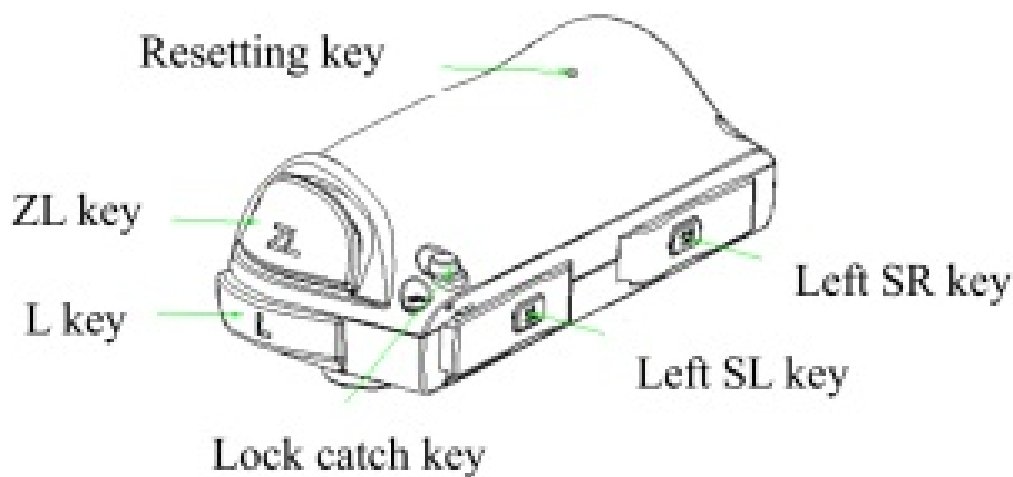
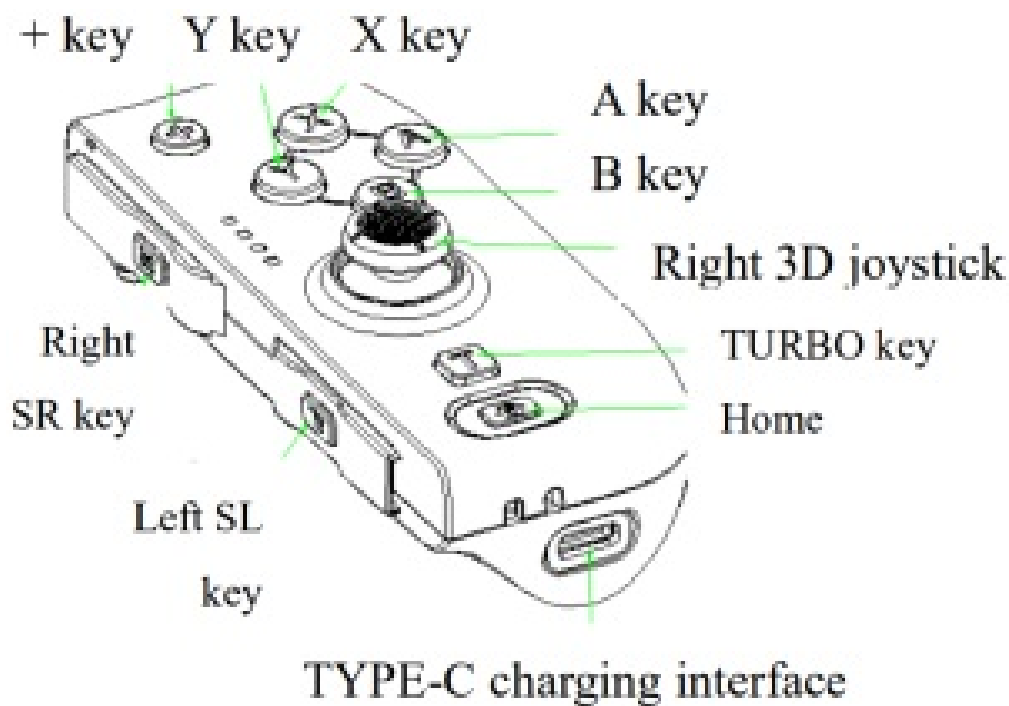
## Production Introduction

Switch -Turbo NFC

It supports the connection between the Bluetooth and Switch console, and it is designed with continuous firing settings in functions keys (Turbo function keys), screen shot key, gyroscope gravity induction, vibration, NFC induction and console wake-up with controller, etc.

## Product Diagram





## Product Features

1. Support Bluetooth wireless connection with Switch host platform.
2. It is designed with Turbo setting function, variable Turbo rate, screen shot key and gyroscope gravity induction and other functions.
3. It is designed with vibration function of double vibrators.
4. Support NFC sensing.

5. It supports console awakening function and connection of the code matching key.
6. Provide the charging lamp.

## Function Chart

Function Name	Available or not	Remarks
USB wired connection	No	
Bluetooth connection	Support	
Connection mode	Switch mode	
Host wake-up function	Support	
Six-axis gravity sensing	Yes	
A key, B key, X key, Y key, – key, + key, L key, R key, ZL key, ZR key, HOME, cross key, TURBO key, SL key, LR key	Yes	
Screenshot key	Yes	
3D joystick (left 3D joystick function)	Yes	
L3 key (left 3D joystick press function)	Yes	
R3 key (right 3D joystick press function)	Yes	
Charging lamps	Yes	
Vibration function	Yes	
NFC reading function	Support	
Controller upgrade	Support	

## Mode and Pairing Connection Instructions

### Switch Wireless Connection Mode:

Before using the wireless connection, please make sure that the system of the Switch host enters: 'Controller' -> 'Change Grip/Order' and is in the pairing state.

Long press the controller code key for about 3 seconds to enter the bluetooth search mode, the LED lamp will flash from "1-4-1" in a marquee style, and the corresponding channel lamp will always be on after the connection is successful.

### Boot Instructions and Back Connection Mode:

- ① Short press for 1s to wake up the controller under the dormant state; short press the Bluetooth code matching key to shut down the controller
- ② Press any key (except for Turbo) to wake up the controller; the controller will automatically back connect to the console paired previously; if the back connection is not successful within 8 seconds, it will enter into the auto sleep status.
- ③ Press the HOME key to wake up the console when the console and controller are in dormant state; if not successful, you can press the HOME key again to wake up the console and controller.

## NFC Function

1. As the NFC induction zone is at the right controller 3D, you should make the NFC card cling right above to the right controller 3D cap, and the read time is 5-8s.

## Charging Indication and Charging Characteristics

When the controller is charging: the charging LED lamp lights up, and the LED light turns off when it is fully charged.

## Automatic Sleep

### 1. Connection Mode to Switch:

Turn off or power off the screen of the Switch host to make the controller automatically disconnect and sleep.

### 2. Bluetooth Connection Mode:

The bluetooth is disconnected and enters sleep mode after the bluetooth code key is pressed shortly.

3. If any key of the controller is not pressed within 5 minutes, it will automatically go to sleep (including the gravity sensor does not move).

## Low Battery Warming

1. Low battery warning: The LED lamp of the current connection channel flashes quickly.

**Remarks:** When the host indicates low power, LED lamp of the controller will flash a few times quickly instead of continuous flashing.

## Turbo Function (burst setting)

1. Semi-automatic TURBO function setting: press TURBO key and then set it as the TURBO function key as required, then you can complete the settings successfully.

2. Full-automatic TURBO function setting: press TURBO key and then press the key which as been set up with the semi-automatic TURBO function.
3. Keys available for TURBO function settings: A key, B key, X key, Y key, L key, R key, SL key, SR key, ZL key, ZR key, "cross" key (up, down, left and right), L3 key (left 3D joystick press key) and R3 (right 3D joystick press key).
4. Clear TURBO function keys that have been set:
  - ① Clear TURBO function of single key: press TURBO key + key set up with TURBO function for quick clear.
  - ② Clear TURBO function of all keys: press TURBO key and "-" of the left controller, and press the TURBO key and "+" of the right controller.Then, the clear is successful.
5. No LED indication for Turbo Function
6. Turbo Speed Adjustment: Turbo 3d Turbo 5Hz->12Hz->20Hz  
Press and hold the Turbo key, pull the 3d upward; Turbo speed: 5Hz->12Hz->20Hz change Turbo 3d Turbo 20Hz->12Hz->5Hz  
Press and hold the Turbo key, pull the 3D downward; Turbo speed: 20Hz->12Hz->5Hz change turbo 20Hz  
**Note:** The default turbo speed is 20Hz after power-on.
7. The Turbo function of all keys is cleared when the controller is under dormancy state.

## Function of Photographing (Screen Shot)

1. Switch mode: After the camera key is pressed, the screen of the Switch host will be saved as a picture.

## Electric Parameters

1. Bluetooth5.0 protocol
2. Operating temperature: -40°C – 80°C
3. Operating voltage: 3.4V
4. Battery voltage: 3.5-4.2V
5. Dormancy current: 1uA-2uA
6. Operating current: 30-50mA

## 3D Joystick Instruction

1. The 3D joystick of this product is not required to be calibrated manually on Switch console; the 3D joystick will be calibrated automatically every time the Switch console is connected.
2. If the 3D joystick drifts in use, please reconnect the controller; you can also carry out manual calibration on the console before use; do not touch the 3D joystick when reconnecting the controller. 15

## Environment Conditions

No.	Item	Technical indicators	Unit	Remarks
1	Working temperature	-40~80	°C	
2	Storage temperature		°C	
3	Relative temperature			
4	Heat-dissipating method	Natural air cooling		

**Upgrade instruction: long press the 3D pushing key of the controller, then release your hand when the indicator light on the controller is on until all the lights are off.**

**Then insert the USB to connect the computer and click the upgrade tool to load the corresponding program for upgrading (the same method is used for left and right controllers).**

**Note: The upgrade line can only use black Type-C terminal, and the white Type-C terminal is only used for charging. 17**

### **Matters Needing Attention:**

1. This product shall be stored in good environment.
2. This product cannot be used and stored in humid environment.
3. This product should be used or stored by avoiding dusts and heavy loads to guarantee its service life.
4. Do not use the product which is soaked, crashed or broken or with electrical performance problems caused by improper use.
5. Do not use external heating equipment such as microwave ovens for drying.
6. If it is damaged, please send it to the maintenance department for disposal. Do not disassemble it by yourself.
7. Children users shall use this product properly under the guidance of parents, and do not be addicted to the game.

**Prepared by: Ruan Kaisong**

**Date: November 25, 2020**

### **FCC Caution**

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, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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

**Note:** This equipment 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



## Documents / Resources

	<p><a href="#">Shenzhen Yuyuanxin Electronic Technology TNS-0163 Switch Bluetooth Controller</a> [pdf]   nstructions</p> <p>TNS-0163L, TNS0163L, 2AJJCTNS-0163L, 2AJJCTNS0163L, TNS-0163R, TNS0163R, 2AJJC TNS-0163R, 2AJJCTNS0163R, TNS-0163 Switch Bluetooth Controller, Switch Bluetooth Controller, Bluetooth Controller, Controller</p>
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