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Unitree R3-1 Remote Control User Manual

Contents

Unitree R3-1 Remote Control

This product is a civilian robot. We kindly request that all users refrain from making any dangerous modifications or using the robot in a hazardous manner.

Please visit Unitree Robotics Website for more related terms and policies, and comply with local laws and regulations.

Introduction

The Unitree R3-1 remote control is a high-end remote control device designed specifically for the consumer market. It deeply integrates Unitree's self-developed high-performance data transmission module and Bluetooth transmission technology, and is committed to bringing users an intuitive, responsive, and efficient control experience. This remote control is optimized specifically for the four-legged robots and humanoid robots of the Unitree full product line.

Through its powerful data transmission module, it enables real-time communication with the robot, allowing users to control the four-legged robot to achieve stable control of 3-axis posture and 3-axis position while standing, and also to manipulate the robotic dog to achieve forward and backward movement, sideways movement, turning in place, walking according to certain rules (straight line, circle, line, rectangle), up and down slopes/steps, dancing, and other actions on flat ground. The R3-1 remote control has a unique design and adopts an ergonomic two-hand grip structure to ensure comfort during prolonged use and greatly enhance the convenience of control.
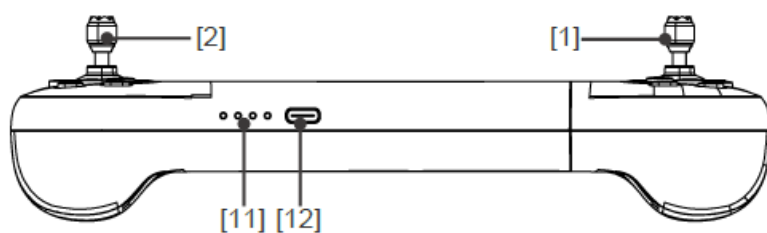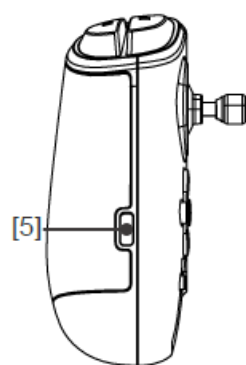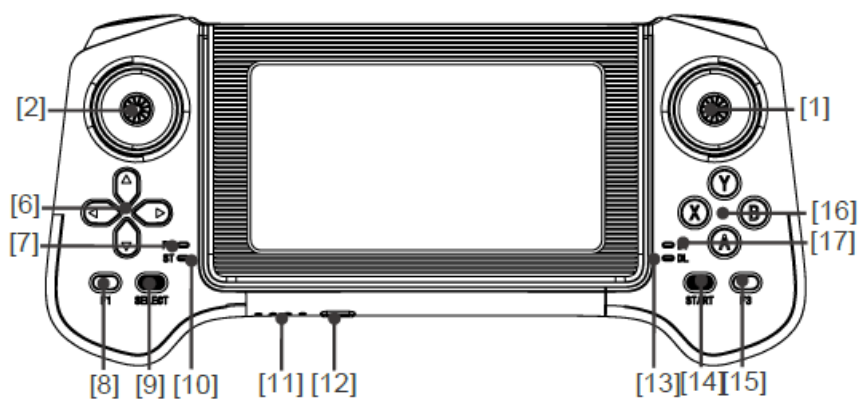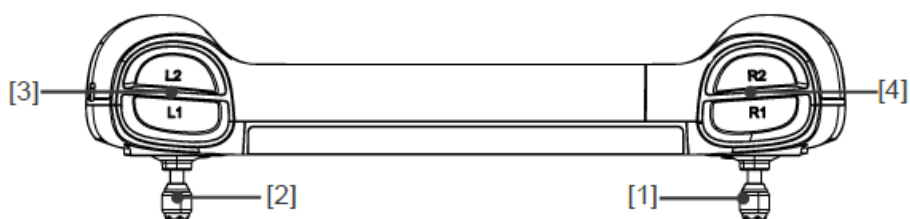
Dimensions

216.40

25.51
44.36

73.62

123.80

100.00

216.24
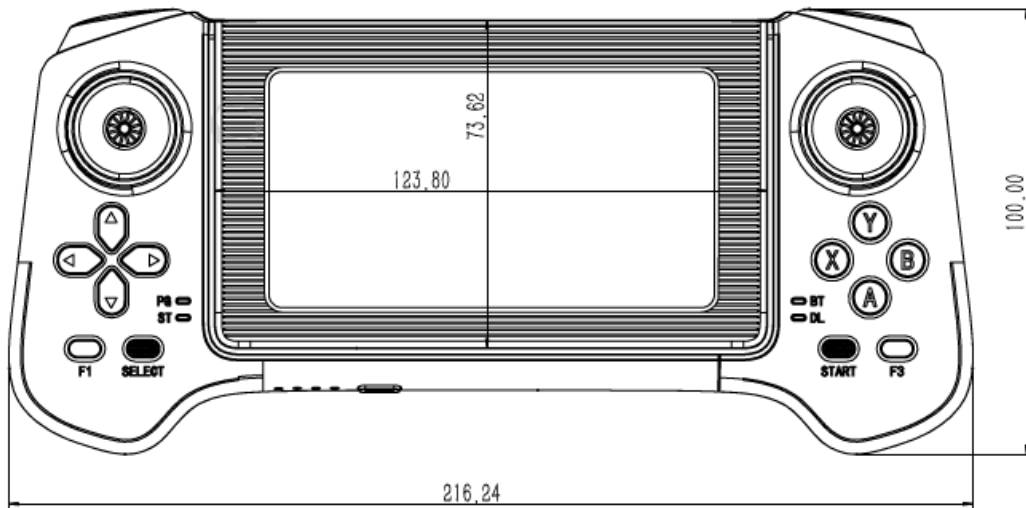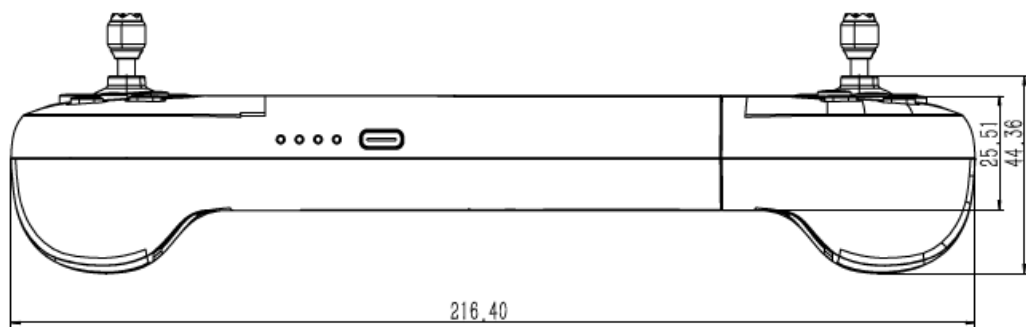
Unit: mm

- Applicable to mobile phones with screen size less than 123.80*73.62.

Parts Name

1. Right Rocker

2. Left Rocker

3. Key L1/L2

4. Key R1/R2

5. Type C Charging Interface

6. Left Key

7. Power Connect Indicator

8. F1 (Function Setting Key)

9. SELECT

10. Charging Status Indicator

11. Power Connect Indicator

12. Power Button

13. Data Transmission Indicator Light

14. START

15. F3 (Function Setting Key)

16. Right Key

17. Bluetooth Signal Indicator Light

Technical Specifications

Parameter	Specification	Remarks
Charging Voltage	5.0V	
Charging Current	700mA	
Lithium Battery Capacity	780mAh	

Communication Mode	Data Transmission Module, Bluetooth	

|		
Running Time	5h	
Remote Control Distance	Above 100m	Open Environment

Install The Joystick

Please follow the steps below to install the joystick:

- **Step 1:** Take out the joystick. As shown in the picture, use your right hand to pull out the remote control smoothly and slowly, and remove the two joysticks from the storage slot.
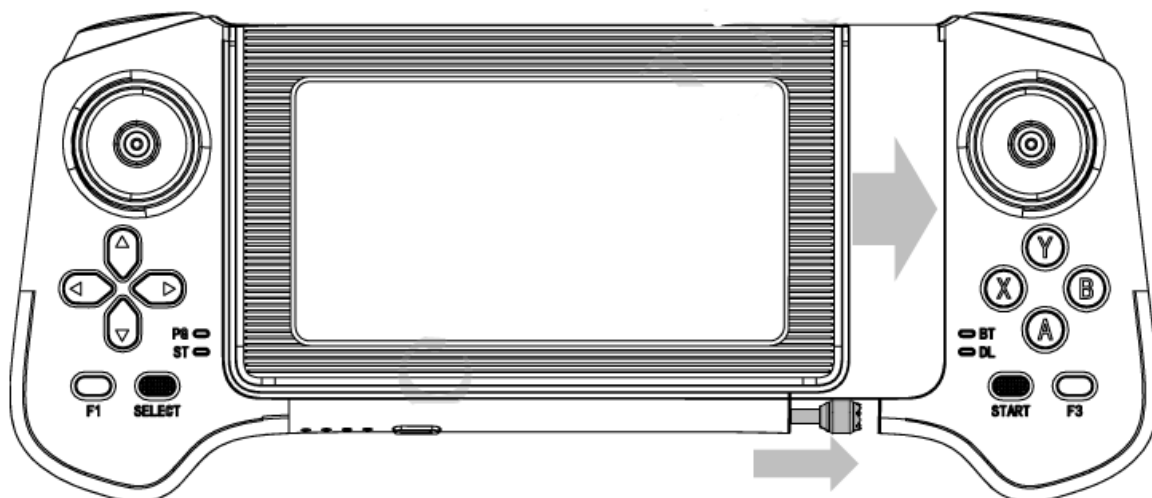
- **Step 2:** Install the remote control. As shown in the figure, secure the remote control to the remote control in a clockwise direction and tighten it.
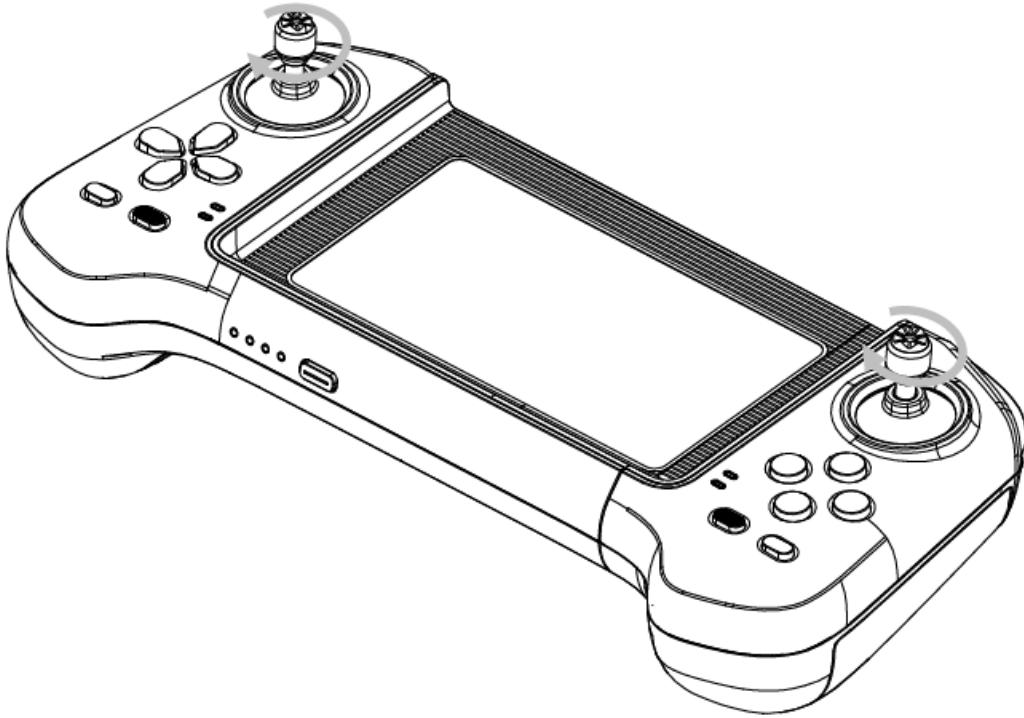
Tip: If you need to store it, please remove the remote control and place it in the storage slot.

Joystick Calibration

Hold the remote without touching the joystick. Press and hold buttons F1 and F3 on the remote for more than three seconds, then release them simultaneously. The remote will emit a continuous "Beep~ Beep~" sound (once per second), indicating it has entered calibration mode. After entering the calibration mode, fully deflect the left and right joysticks in their respective directions and rotate them several times until the "Beep~ Beep~ Beep~" sound stops, signifying the completion of the calibration process. If the sound heard is "Drip~ Drip~," it indicates a failed calibration.

Tip: When calibrating the remote rod, please do not touch the rocker before calibration. The rocker can only be moved after entering the calibration mode.
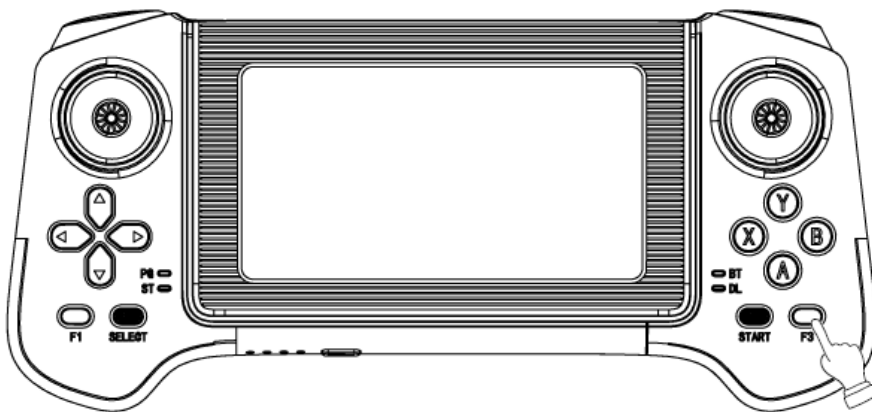
Power

Remote Control Turn on/Turn off

- **Turn On the Remote Control:** Press the power button briefly once, followed by holding it down for more than 2 seconds. You will hear two short "Beep~ Beep~" sounds, indicating that the remote control is turned on.
- **Turn Off the Remote Control:** Press the power button briefly once again, and then hold it down for over 2 seconds. Upon hearing three consecutive "Beep~ Beep~ Beep~" sounds, the remote control will be turned off.
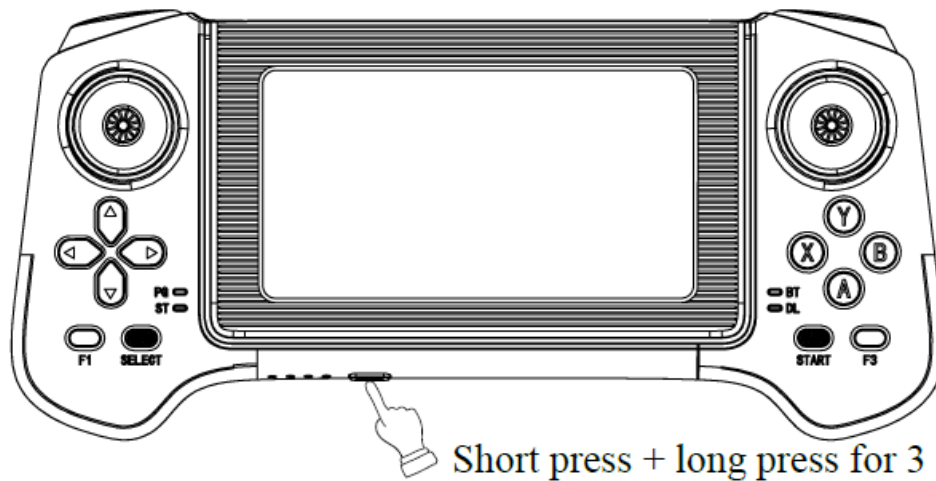
Short press + long press for 3 seconds or more

Vibration/sound switching

- **Switching vibration:** Quickly press the F3 button 3 times to switch to vibration mode.
- **Switch sound:** Quickly press the F3 button 3 times to switch to sound mode.

Press F3 button 3 times quickly

Remote Control Charging

When the remote control battery indicator shows low power, the remote control should be connected to the charger, as shown in the figure below:

AC Power
100-240V   USB Charger

USB-Type C Cable
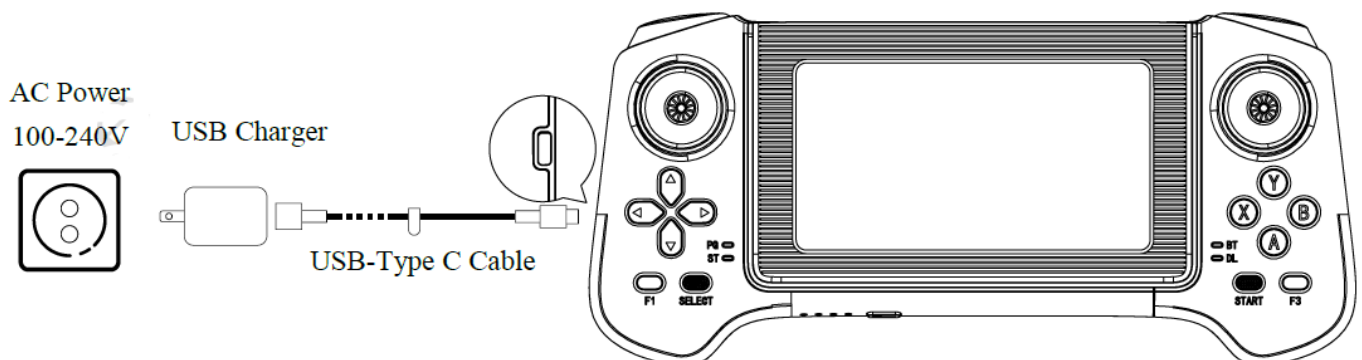
1. We recommend you to use a 5V/1A USB charger which meets FCC/CE standard.
2. Ensure that remote control is switched off before charging it.
3. The power indicator light will flash at 1Hz (1 second/time) in charging status and indicate the current power

level.

4. When the power indicator light is all off it means the battery pack is full, please remove the charger to finish charging.

Charging Indicator Light				
LED1	**LED2**	**LED3**	**LED4**	**Current Battery**
☀	○	○	○	0%-25%
☀	☀	○	○	25%-50%
☀	☀	☀	○	50%-75%
☀	☀	☀	☀	75%-100%
				Full Charged

FCC STATEMENT

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

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.

RF Exposure Statement

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

Info

FR	DE	IT	NL
BE	LU	DK	IE
GB	GR	ES	PT
FI	AT	SE	PL
HU	CZ	CY	SI
SK	LV	LT	EE
BG	RO	MT	HR

Documents / Resources

Unitree R3-1 Remote Control [pdf] User Manual
R3-1 Remote Control, R3-1, Remote Control, Control

References

- **User Manual**