



# ROBOTIS RC-300 Controller Device User Manual

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# ROBOTIS

## ROBOTIS RC-300 Controller Device



## Appearance



## Specification

Item	Description
Weight	72.4g
Dimension	138mm x 105mm x 36mm
Operating Voltage	3.0V(DC)
Power Consumption	0.05W
Battery	Alkaline(LR6) AA Battery x 2
Button	11 Buttons (Including POWER button)
Communication Mode	BLE Communication(Central Role)

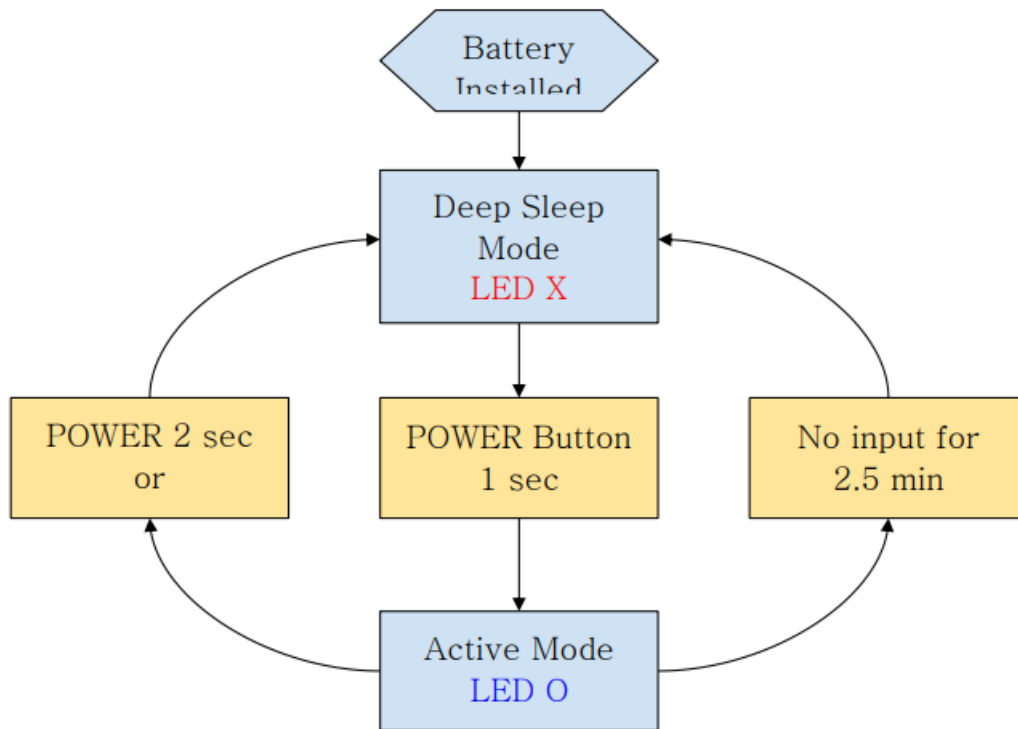
## Brief Function

- Insert two AA batteries into the backside of RC-300.
- Press the POWER button for 1 second to turn on power.
- Then the blue LED will turn on.
- RC-300 works as a BLE Central (Master) role. It will connect to the last connected Peripheral device or connect to a very closed Peripheral device.
- After connecting, RC-300 will send 6-byte remoon data via BLE if one or multiple buttons of U/D/L/R/1/2/3/4/5/6 is pressed.

## Power

Use two AA batteries for the power source.

## Mode Diagram



## Function

### Deep Sleep Mode

- After batteries are installed, RC-300 enters Deep Sleep Mode.
- In Deep Sleep Mode, RC-300 turns off BLE and LED, it consumes very low current.
- In Deep Sleep Mode, RC-300 will enter Active Mode by pressing the POWER button for 1 second.

### Active Mode

- BLE is turned on in Active Mode.
- Before BLE is connected, the blue LED will blink every 0.5 second. After BLE is connected to a peripheral device, the blue LED will be kept turned on.
- After connecting to a peripheral device, if any button is pressed, RC-300 will send 6-bytes packets via BLE to the peripheral device every 50ms. After all buttons are released, RC-300 will send a 6-bytes packet with value 0.
- RC-300 will enter Deep Sleep Mode if there is no input for 2.5 minute.
- If total battery voltage is under 1.6V, RC-300 will enter Deep Sleep Mode after 4 times of 0.2 sec interval blinking.
- Enter Deep Sleep Mode by pressing the POWER button for 2 seconds.

## FCC Information

**This device complies with part 15 of the FCC Results. Operation is subject to the following two conditions :**

1. This Device may not cause harmful interface, and

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 CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment 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 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 receiver is connected.
- Consult the dealer or experienced radio/TV technician for help.

**WARNING**

Changes or modifications not expressly approved by the manufacturer could void the user’s authority to operate the equipment.

“**CAUTION** : Exposure to Radio Frequency Radiation.

Antenna shall be mounted in such a manner to minimize the potential for human contact during normal operation. The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limit.

**Documents / Resources**

RC-300 Manual	<a href="#">ROBOTIS RC-300 Controller Device</a> [pdf] User Manual RC-300, RC300, SOD-RC-300, SODRC300, RC-300 Controller Device, Controller Device
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