

PART DESIGN

CUSTOMERS MODEL :ComHem Android



**1. Application Range**

This technical specification was made by Remote Solution for IR/BLE Remote Control of ComHem Android.

**2. Specification****2-1 Appearance**

- a. There should be no issue for Button Locking
- b. There should be no stiff and looseness when opening or closing the battery cover
- c. There should be no issue for attachment of label
- d. There should be no spread of printing in RCU
- e. There should be no warpage in RCU
- f. There should be no electricity issue because of deformation of Spring
- g. Edge of Spring should be rounded
- h. Spring should be horizontal when inserting the battery
- i. There should be no sharpness in case
- j. The Printing of product should be same as product specification

**2-2 Characteristics of framework****2-2-1 Exploded diagram of remote control**

- a. Component of Remote control should be match up with drawing
- b. There should be no issue for soldering after disassemble of remote control
- c. There should be no contact between component
- d. Printing of PCB should be same with drawing
- e. There should be no Flux in carbon paste
- f. There should be no Pb dirt in PCB

**2-2-2 Characteristics of rubber contact**

- a. Operation : There should be no issue when pressing the keys vertically
- b. Operation : Metal Dome will be pressed with power of  $140g \pm 20g$
- c. Working distance of button:  $0.5 \pm 0.1$  mm
- d. Returning of rubber button: It will be more than 40% of Operation [Measured with middle of Key]
- e. Weight : There should be no defects in RCU when pressing the button vertically with power of 3Kg for 3 second

**2-2-3 Characteristics of battery**

- a. There should be no issue when inserting or subtracting of battery
- b. There should be no issue for current after inserting the battery
- c. There should be no electricity issue after inserting or subtracting of battery for 100 times
- d. electrode : The gap of electrode from + to - should be less than 0.4mm
- e. There should be no electricity flow once battery is inserted by opposite way
- f. There should be no deformation after 24 hours once battery is inserted by opposite way
- g. Battery should be compatible other maker  
[Compatibility of size : AAA(L=44.2~43.4mm,  $\Phi 10.5 \sim 9.5$ )] , AA (L=50.5~49.0mm ,  $\Phi 14.5 \sim 13.5$ )]

**2-2-4 Characteristics of battery**

- ① Dimension : Dimension should be meet specification
- ② The gap should be less than 0.3mm after assemble of RCU - GAP of key top and side knob should be less than 0.6mm
- ③ Gap : The Gap should be less than 0.4mm after assembly of Battery Cover
- ④ Product Size : 160mm x 44.6mm x 21T

## 9. User Manual

**Pairing/UnPairing behavior**

## Definitions:

- One-color LED (**blue**)
- Blink – 250ms ON, 250 ms OFF
- Slow blink – 500ms ON, 500 ms OFF
- Fast blink – 150ms ON, 150 ms OFF

## Pairing:

- [Pairing start]
  - Press and hold the [OK] and [HOME] key for 3 seconds
- [Pairing timeout]
  - 30sec
- [LED behavior]
  - LED slow blink while pairing process
  - LED fast blink 5-times when pairing completion

## UnPairing:

- [UnPairing start]
  - Press and hold the [OK] and [BACK] key for 3 seconds
- [LED behavior]
  - LED blink 3-times when UnPairing completion

## Button Events:

- [UnPaired status]
  - IR send
- [Disconnected status]
  - IR send
  - When Power key press
    1. High Duty Cycle Directed Advertising: 1.28 seconds
    2. Undirected Advertising: 8 seconds
  - When other keys press
    1. High Duty Cycle Directed Advertising: 1.28 seconds
    2. Low Duty Cycle Directed Advertising: 60 seconds
- [Paired and Connected status]
  - BT send

# FCC warning

## § 15.21 Information to user.

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

## § 15.105 Information to the user.

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 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.

## 15. RF exposure statement

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

## 16. label statement

§ 15.19 Labelling requirements. 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