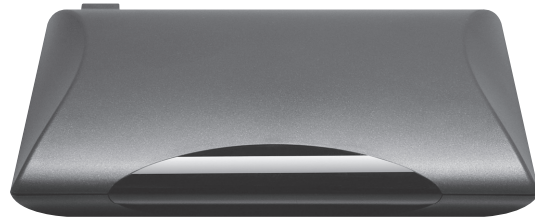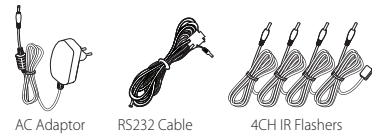# User's Guide

- Application : RF to IR, RS232

- Power : AC100~240V, 50/60Hz

- Dimension : 130(W)×100(H)×27(D)mm

RF Transceiver Unit

CE 0678   FCC ID TX4RH55K   ⋮ RS232   ⋮ Zigbee

AC Adaptor   RS232 Cable   4CH IR Flashers

WARNING!

USER'S GUIDE

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1. Product Package

1-1. RF Receiver & IR Converter (Optional)
- Adaptor Specs : DC 12V, 500mA
- Receives RF signals from the main remote control and converts them
  to IR or RS232 signals.

RS232 Connector   IR Flasher connector   DC12V

LED 1   LED 2
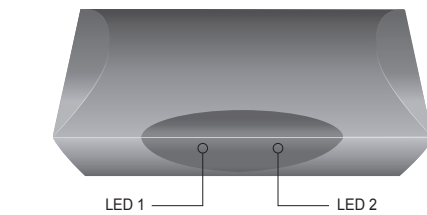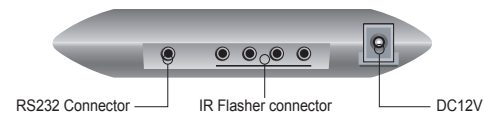
- **LED 1** : Turns on when it is in RX mode
  (Turns on when Power is supplied)
- **LED 2** : Flashes when receive RF signal and output IR or RS232 signals.

1-2. Button at the Bottom of the Relayer

Function button : To set up RF channel or check channel

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2. OPERATING SET-UP

2-1. Channel setting & current channel reading in Receiver

2-1-1. After 5 sec. once power is supplied, LED1 and LED2 on receiver
flash and indicate firmware version.

2-1-2. To check the current channel, press and release function button one time.
LEDs turn off temporarily. And then indicate the current channel by
the flash of LED1 and LED2 (Ex : A=10, B=11, ...)

LED1: Ten figures
LED2: One figure
0: flash qucikly10 times
1~9: Flash slowly to indicate digit.
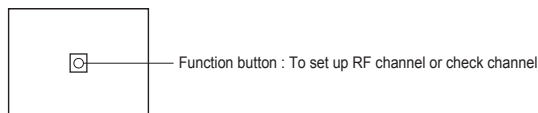The initial channel is set up as "0".
Once indicating channel is completed, LED1 turns on.

2-1-3. To change channel, presss function button for 2 sec.
After all LEDs on receiver turn off, next channel is set up.
Channel set up newly is indicated as 2-1-2) method.

2-1-4. RF channels are from 0 to F(15). Channel is set up by
increasing one by one through 2-1-3) step.
\# This setup is also available by usingPC manager porgram.

3. Specification and features

3-1. RF Frequency Range
- 2400 ~ 2483.5 MHz

Ch11: 2405MHz	Ch17: 2435MHz	Ch23: 2465MHz
Ch12: 2410MHz	Ch18: 2440MHz	Ch24: 2470MHz
Ch13: 2415MHz	Ch19: 2445MHz	Ch25: 2475MHz
Ch14: 2420MHz	Ch20: 2450MHz	Ch26: 2480MHz
Ch15: 2425MHz	Ch21: 2455MHz	(16Channel, Fc)
Ch16: 2430MHz	Ch22: 2460MHz	

3-2. Use distance
- IR Blaster : 1meter
- IR Flashers : 5cm
- RF : 20meters (Depending on operating condition, distance can be changed)

3-3. RS232
- Speed : 2,400 ~ 115,200 bps
- Interface : Tx, Rx and GND
- Cable Adapter : Male DB9 to Stereo Plug (Need to purchase a converter
  for PC Firmware upgrade)

3-4. Operating temperature : 0˚C ~ +35˚C
3-5. Humidity : 0% ~ 90%
3-6. Power : DC12V, Max 1.0A