

## Product Descriptions

### European Style LIBERTY Dimming Remote Control Kit

**Model #:**     **BRT-691S (Transmitter)**  
                   **BRT-691R (Receiver)**



(Please visit our website [www.a-brt.com](http://www.a-brt.com) for more info)

#### **Features:**

The Dimming Remote Control Kit consists of a BRT-691R Controller and a BRT-691S remote control dimming switch that looks exactly like a standard wall mount switch. While the controller is usually installed near a load, the switch can be installed on top of a standard wall box or anywhere on the wall and it can be even detached from its wall mount plate to be used as a handheld device. The kit offers unprecedented freedom of control. With no need for wiring, it is perfect for retrofit.

- On/Off control up to 20m;
- Dimming function for 1 load;
- Each BRT-691R controller can paired with up to 20 BRT-691S switches;
- Each BRT-691S switch control many loads that have paired BRT-691R controller installed;
- Good for all kind of loads;
- ABS-V0 flame resistance material;
- Classic 86 series design and high quality build.

#### **Product Pictures:**

Fig. 1 and Fig. 2 show the front view and the back view of the BRT-691S remote control dimming switch respectively. It has one ON/OFF button and one dimming button on the front and snap-on notches on the back.



**Fig. 1** 691S Front View**Fig. 2** 691S Back View

By a quick press on the On/Off button on the right, the first load will be turned on/off as long as they have BRT-691R controller installed and the controller is paired with the button. By a quick press on the dimming button on the left, the second load will be turned on and dimmed by the “up” and “down” buttons after having BRT-691R controller installed and the controller is paired with the button. One press on the OFF button in the center turns off all the loads.

Fig. 3 and Fig. 4 show the top view and the bottom view of BRT-691R controller respectively. The unit has a SET button on the top and three terminal blocks for wiring on each side.

**Fig. 3** 691R Top View**Fig. 4** 691R Bottom View

### Specification Parameters:

#### **BRT-691S**

Batteries	3V DC (2 x AAA)	Operation Environment	No-condensation 20-90% RH, -20℃ ~ 55℃
Remote Control Mode	RF (433MHz)	Remote Control Distance	Up to 20m
Dimension	86mm x 86mm x 12mm	Weight	100g

#### **BRT-691R**

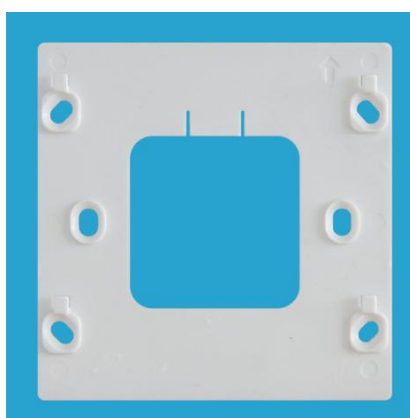
Input	100 ~ 254V (50Hz/60Hz)	Operation Environment	No-condensation 20-90% RH, -20℃ ~ 55℃
Output	120VAC-250W(Max) 220VAC-500W(Max)	Load Type	All kinds of loads
Wiring	Neutral required	Dimension	57.5*43.6*20.7mm

Color	White	Weight	55g
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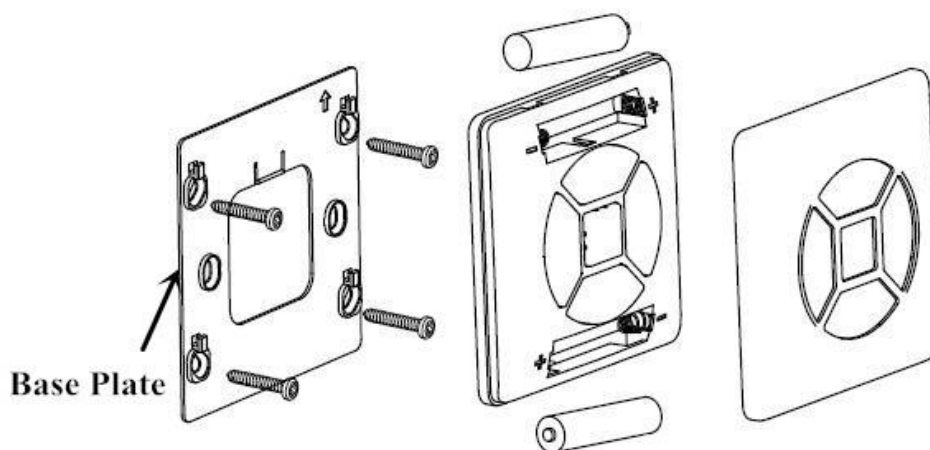
### **Wiring and Installation Guide:**

**Installation of BRT-691S.** BRT-691S comes with a base plate as shown in Fig. 5 and 4 mounting screws (not shown). The base plate can be installed on top of a standard wall box using the two mounting holes in the middle or anywhere on the wall using the four mounting holes in the corners.

Once the base plate is installed, BRT-691S can be directly snapped onto the base plate.



**Fig. 5** Base Plate of BRT-691S



**Fig. 6** Installation of BRT-691S

Fig. 6 shows how to install BRT-691S remote control dimming switch. There are three easy steps:

Step one: Use a screwdriver and the screws provided to install the base plate;

Step two: Install two AAA batteries into the battery holders and put on the cover;

Step three: Attach the switch onto the base plate.

**Installation and Wiring of BRT-691R.** BRT-691R requires hot wire and neutral wire for installation. The ports have terminal blocks and are clearly labeled (as shown in Fig. 4). During installation, the corresponding wires are to be connected to each port and secured in place by tightening the screws of the terminal blocks.

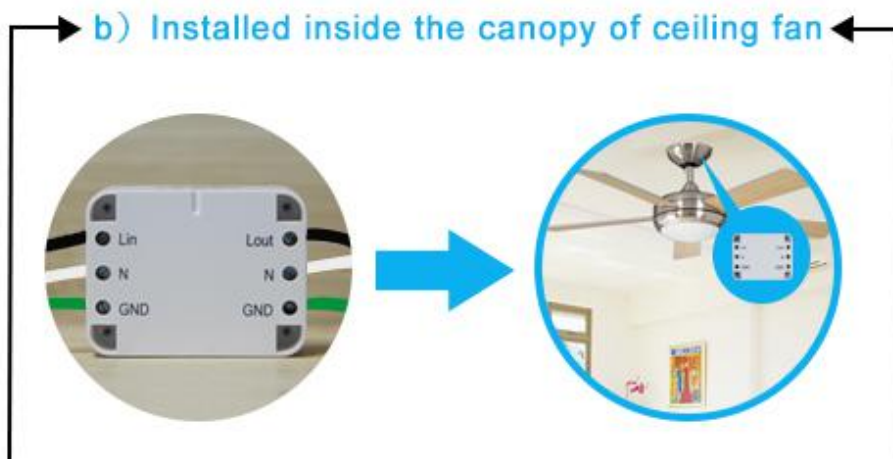
Lin: Input hot wire  
Lout: Output hot wire  
N: Neutral wire  
GND: Ground

**Warning:** Please make sure power is turned off before starting installation!

BRT-691R can usually be installed in a hidden space because of its small size and for safety reason. The following are two typical application scenes:



**Fig. 7a** BRT-691R Installed inside Ceiling Light



**Fig. 7b** BRT-691R Installed inside the Canopy of Ceiling Fan

***Note:** Each BRT-691R controller can be wired to power multiple loads, but the total load power must not exceed the power rating.*

#### **Operation Guide:**

After a BRT-691R controller is wired and powered on, a long beep sound will indicate the controller is set up properly. Then, it's time to link the controller with a BRT-691S remote control dimming switch.

**Pair the controller with an On/Off button of BRT-691S.** Use a pin to press the SET button of BRT-691R twice, the controller will sound a short beep and enter the pairing state. Press the On/Off button of BRT-691S to be paired. Another short beep from the controller will indicate pairing has been established successfully. The paired On/Off button is ready to turn on or turn off the load with the paired controller remotely.

**Pair the controller with the dimming button of BRT-691S.** Use a pin to press the SET button of BRT-691R twice, the controller will sound a short beep and enter the pairing state. Press the left dimming button of BRT-691S to be paired. Another short beep from the controller will indicate pairing has been established successfully. The paired dimming button is ready to turn on/off the load and the “up” and “down” buttons are ready to adjust the dimmer of the load with the paired controller remotely.

The pairing between a BRT-691R controller and the Buttons of BRT-691S can be removed by pressing and holding the SET button of BRT691R for 3 seconds. A short beep from the controller will indicate pairing has been cleared successfully.

#### **Applications:**

The LIBERTY Dimming Remote Control Kit brings us unprecedented freedom of control. Because it does not need wiring in the wall, it is perfect for retrofitting installations. The user will benefit greatly from saving money and time.

The kit has wide applications at various locations such as homes, restaurants, conference rooms, theaters, etc. It can be used for turning on/off and dimming various loads such as fans, lights, appliances, or other kinds of electrical equipment.

#### **How to Order:**

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