

# 12x1 12 Channel RF Controller

Lightobject.com



This is a 12 channel RF system of that the 12 channel transmitter can control up to twelve unit of 1 channel receiver. Each receiver can be set to momentary, toggle mode, or latching. Moreover, the system support “Auto Learning” should a new transmitter is needed or for a replacement is required.

The controller provides three different mode output: Momentary, Latched, Toggle

## A. Output mode vs Button on transmitter

- a) Momentary – #2
- b) Latched- #4 (each channel is independent)
- c) Toggle – #1
- d) Mixed mode: Ch1~CH6 (latched), Ch7~CH12(momentary): #8

## B. Learning and mode configuration:

- 1) Clear memory: Hold the learning button on the receiver for 6’s until the red LED blinks 6 times.  
Memory now is cleared.  
Press #4 immediately for Latching mode. The LED indicator will blink 1’s. Programming completed.
- 2) Clear memory: Hold the learning button on the receiver for 6’s until the red LED blinks 6 times.  
Memory now is cleared  
Press #2 immediately for Momentary mode. The LED indicator will blink 1’s Programming completed.

- 3) Clear memory: Hold the learning button on the receiver for 6's until the red LED blinks 6 times.  
Memory now is cleared  
Press #1 immediately for Toggle mode. The LED indicator will blank 1'S  
Programming completed.
- 4) Clear memory: Hold the learning button on the receiver for 6's until the red LED blinks 6 times.  
Memory now is cleared  
Press #8 immediately for mixed mode learning. The LED indicator will blank 1'S  
Programming completed. Ch1~Ch6 is Toggle, Ch7~Ch12 is Momentary

### C. Receiver Setting

There are 3 rows of jumper on the receiver board for channel setting. It labels 'L1' and 'L2'. To set the channel corresponding to the remote key, a jumper to short L2 is required.

Example: Jumper the 1<sup>st</sup> position on L2 and the receiver will response to #1 key press on the remote unit.  
Jumper the 2<sup>nd</sup> position on L2 will set the receiver to response to the #2 key press on the remote unit

#### Specification:

Power: DC 12V

Static current:  $\leq 6\text{mA}$

Temp:  $-40^{\circ}\text{C}$  to  $80^{\circ}\text{C}$

Sensitivity:  $\geq -105\text{dBm}$

Frequency: 433MHZ

Relay max current: 3A

Dimension: 30 mm  $\times$  15 mm  $\times$  8 mm