



# Controller MJ-12RGB-500 Specification

## Description



Function	Color Mixture and Color changing
Model	MJ-12RGB-500
Dimensions	115 x 76 x 41mm,
Power consumption	6W
Input	DC 12V Red (+), Black (-)
Output Capacity	3 channels (R, G, B), 500 RGB Modules, each channel with 10A current driving

MJ-12RGB-500 is powered by 12V DC and may drive 500 RGB modules. It is convenient to meet the customized requirements for color mixture and color changing speed. It has the over loading protection and auto-recovery when over loading removal.

## Operation Guide

Total 6 operation modes had been set up. You can select operation mode by pushing the red button. When power on, this controller is automatically into operation mode1. Pushing the red button one times switch to mode 2, pushing the red button the 2nd times switch to mode3...Pushing the red button the 6th times return to mode 1. Pushing down the green button switch to testing status, then the green LED on the panel is lighting indicating into testing mode and all 3 channels are active.

Following is the explaining for operation modes for the reference of mode selection:

**Mode1:** Red LED gradually changes from the darkest to the brightest then to the darkest; this process takes around 60 seconds, then off, after around lasts 75 seconds repeats above process.

Blue LED lights after red LED is lightened around 45 seconds, the brightness changing is same as red LED.

Green LED lights after blue LED is lightened around 45 seconds, the brightness changing is same as red LED.

**Mode2:** Red LED gradually changes from the darkest to the brightest then to the darkest; this process takes around 60 seconds, then off, after around lasts 60 seconds repeats above process.

Blue LED lights after red LED is lightened around 30 seconds, the brightness changing is same as red LED.



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Green LED lights after blue LED is lightened around 30 seconds, the brightness changing is same as red LED.

**Mode3:** Red LED gradually changes from the darkest to the brightest then to the darkest; this process takes around 30 seconds, then off, after around lasts 15 seconds repeats above process.

Blue LED lights after red LED is lightened around 15 seconds, the brightness changing is same as red LED.

Green LED lights after blue LED is lightened around 15 seconds, the brightness changing is same as red LED.

**Mode4:** Red LED gradually changes from the darkest to the brightest then to the darkest; this process takes around 5 seconds, then off, after around lasts 2.5 seconds repeats above process.

Blue LED lights after red LED is lightened around 2.5 seconds, the brightness changing is same as red LED.

Green LED lights after blue LED is lightened around 2.5 seconds, the brightness changing is same as red LED.

**Mode5:** Red LED gradually changes from the darkest to the brightest then to the darkest; this process takes around 30 seconds, then off, after around lasts 60 seconds repeats above process.

Blue LED lights after red LED is off, the brightness changing is same as red LED.

Green LED lights after blue LED is off, the brightness changing is same as red LED.

**Mode6:** First lighten red LED around 5 seconds then off, followed lighten blue LED around 5 seconds then off, followed lighten green LED 5 seconds then off. Repeat above process.

MJ-12RGB-500 controller can be also used for anywhere needs multi-channel LED mixture application. It can be customized as need.

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