User manual

Product name: LED Wireless Receiver

Model: SA40698

Manufacture: Signcomplex Limited

Ⅰ. Product description

The product adopts high performance processor and can control four types of low voltage LED products including single-color light bar, warm white light bar, RGB light bar and RGBW light bar. The remote controller may perform group control and DIY color setting. The control for color mode and change speed may be realized through 2.4G remote controller or Bluetooth APP with fine dimming and without flicker.

Ⅱ. Product parameters

Technical parameter \ Type	SA40698-MONO	SA40698-CCT	SA40698-RGB	SA40698-RGBW
Work voltage	12/24/36V DC	12/24/36V DC	12/24/36V DC	12/24/36V DC
Maximum current	5A*1CH, 2.5A*4CH Max 10A	2.5A*4CH Max 10A	3A*3CH Max 10A	2.5A*4CH Max 12A
Maximum power	120W(12V)/240W(24V)/360W(36V)	120W(12V)/240W(24V)/360W(36V)	120W(12V)/240W(24V)/360W(36V)	120W(12V)/240W(24V)/360W(36V)
Control group number	Four groups	Two groups	One group	One group
Control type	Single-color light bar/single-color lamp	Warm white light bar/warm white lamp	RGB light bar/RGB lamp	RGBW light bar/RGBW lamp
Matched remote controller	9-key controller	-	36-key controller	-
Remote control environment	100 meters (open condition)	-	100 meters (open condition)	-
Work environment	Indoor			
Work temperature	-30℃~50℃			
Waterproof grade	IP20			

Ⅲ. The matching function of "ID learning keys" on the controllers

1. How to match the remote controller

1) Power on the remote controller;

2) Press "ID learn key" on the controller and the controller enters the learning state.

3) Press any key on the remote controller to match successful.

2. How to realize group control on the remote controller (9-key controller).

1). Connect four groups of light bar at the output end of the controller and then power on the controller.

2). First, press "ID learn key" on the controller. Then press "group 1" on the controller and the first group can be matched successfully. If you want to add other groups in the group, repeat above operation.

3) Then, press the "ID learn key" on the controller. Then press "group 2" on the remote controller to match the second group successfully. If you want to add other groups in the group, repeat above operation. The group 3 and group 4 can be matched in the same way.

4). There are four groups of controllers. If you want to control the first group, just press "group 1" on the remote controller to carry out dimming operation for group 1; if you want to control the second group, just press "group 2" on the remote controller to carry out dimming operation for group 2; if you want to control group 1, 2, 3 and 4 together, you may press the "group control switch" on the controller and can carry out dimming operation for all controllers of the 4 groups.

3. How to cancel matched remote controllers

1) Power on the controller;

2) Hold down the key on the remote controller for 6 seconds to cancel the previously matched controllers.
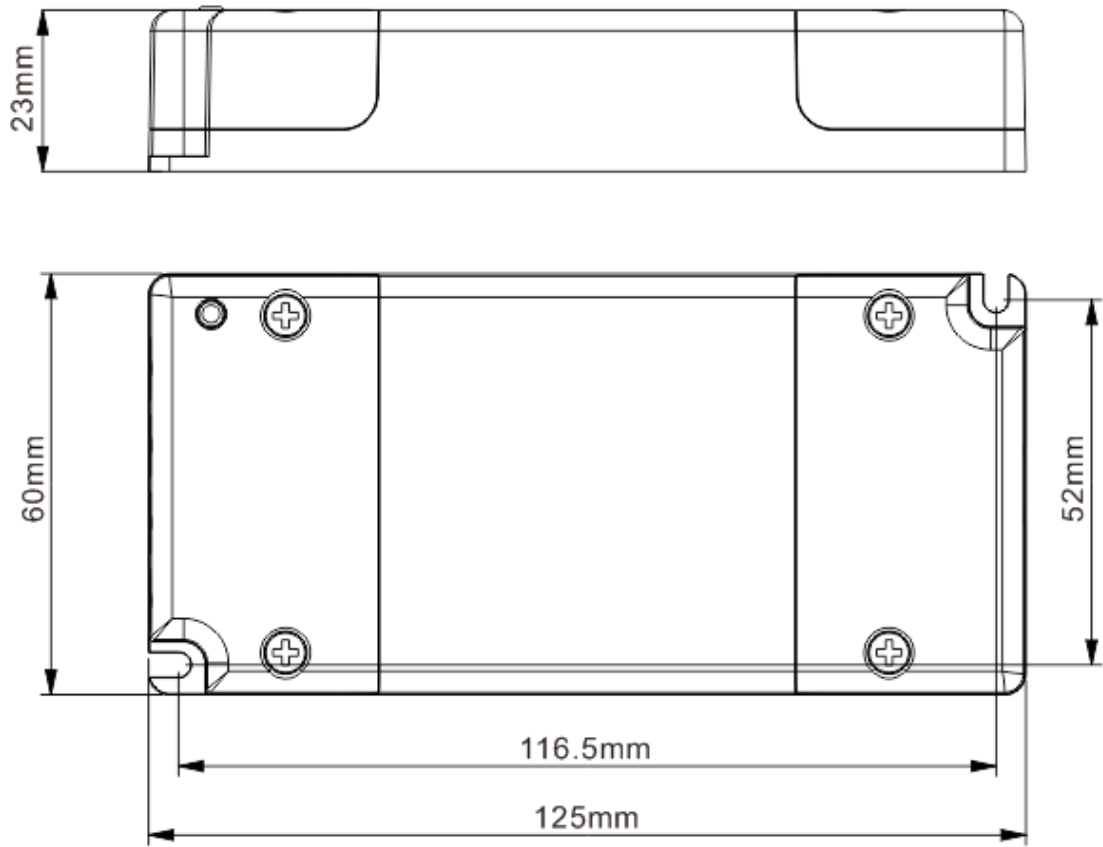
IV. Color mode (equipped with 36-key remote controller)

1. Static red

2. Static green

3. Static blue

4. Static yellow

5. Static purple

6. Static cyan

7. Static white

5. Red-green jumping change

9. Red-blue jumping change

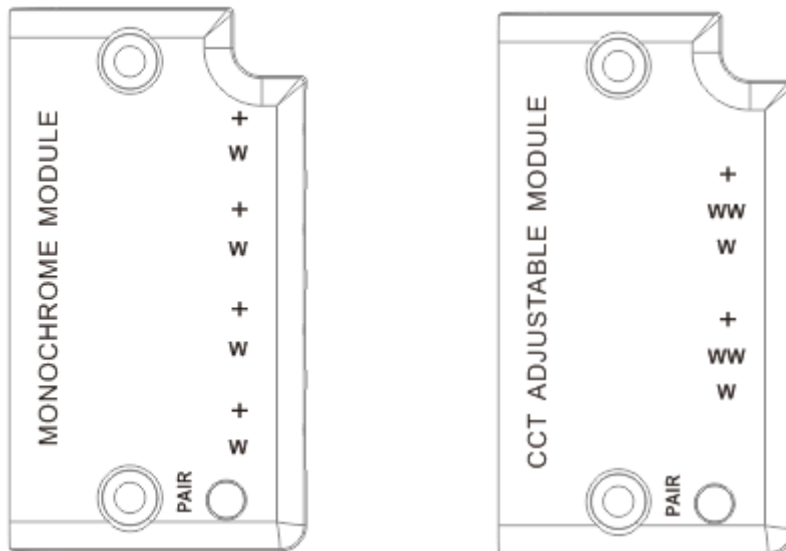10. Green-blue jumping change

11. Yellow-cyan jumping change

12. Yellow-purple jumping change

13. Cyan-purple jumping change

14. Red-green-blue jumping change

15. Yellow-purple-cyan jumping change

16. Red-green-blue-yellow-purple-cyan-white 7 colors jumping change

17. Red gradual change

18. Green gradual change

19. Blue gradual change

20. Yellow gradual change

21. Purple gradual change

22. Cyan gradual change

23. White gradual change

24. Red-green gradual change

25. Red-blue gradual change

26. Green-blue gradual change

27. Yellow-cyan gradual change

28. Yellow-purple gradual change

29. Cyan-purple gradual change

30. Red-green-blue gradual change

31. Yellow-purple-cyan gradual change

32. Red-green-blue- yellow- purple- cyan- white 7 colors gradual change

33. Red-green mixed color gradual change

34. Red-blue mixed color gradual change

35. Green-blue mixed color gradual change

36. Red-green-blue mixed color gradual change

37. Red flickering

38. Green flickering

39. Blue flickering

40. Yellow flickering

41. Purple flickering

42. Cyan flickering

43. White flickering

44. Red-green flickering

45. Red-blue flickering

46. Green-blue flickering

47. Yellow-cyan flickering

48. Yellow-purple flickering

49. Cyan-purple flickering

50. Red-green-blue flickering

51. Yellow-purple-cyan flickering

52. Red-green-blue-yellow-purple-cyan-white 7 colors flickering

VI. Dimension drawing (unit: mm)

Ⅶ. Interface picture

Single color interface   warm white interface

RGB interface   RGBW interface

VIII. Considerations

1. The product should be debugged and installed by professional personnel.

2. When the controller is installed, the power supply of the controller should be disconnected. The corresponding LED product and controller should be connected properly. Then power on the remote controller after confirming the connection is correct.

3. The product is not waterproof and used in dry environment.

4. Good heat emission condition may extend service life of the controller. Please put the product under the environment with good ventilation.

5. Ensure that the voltage complies with the requirement of voltage scope of the product.

6. The line size used must bear the connected load and ensure that connection is firm.

7. before debugging with electricity, ensure that all wire connection is correct to avoid damage to lamps due to wrong wire connection.

8. If the failure takes place, don't repair it by yourself. Please contact the manufacturer.

FCC Caution.

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.

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

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 harmful 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.