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superbrightleds com DS-RT09 Addressable RGB LED Controller and Remote User Manual

Contents

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Specifications

- **Product:** Addressable RGB LED Controller and Remote
- **Model:** DS-SC (with DS-RT09)
- **Power Supply:** CR2032 Battery
- **Strip Length:** Up to 1,024 pixels
- **RGB Order Options:** RGB, RBG, GRB, GBR, BRG, BGR
- **IC Type Options:** TM1803, TM1809, TM1804, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, WS2811, WS2812, and more

Product Usage Instructions

Remote(s) must be paired as part of the installation process. Each controller can be paired to up to ten (10) remotes.

- To pair a remote:
    - Press the match button on the controller.
    - Immediately press the on/off button on the remote.
    - The indicator light on the controller will flash slowly while attempting to pair, then flash five times rapidly to indicate successful pairing.
- To unpair a remote:
    - Hold the match button for five seconds.
    - The indicator light on the controller will flash five times rapidly to indicate successful unpairing.

- Press the function button (*).
- Enter the number of pixels using the number buttons.
- Press the function (*) button again.
- Note: Numbers lower than 100 will need a zero (0) entered before the number.
- Press the function button (*).
- Enter the one-digit code corresponding with the correct RGB order using the number pad.
- Press the function (*) button again.
- Press the function button (*).
- Enter the two-digit code corresponding with the correct IC type using the number pad.
- Press the function (*) button again.
- Consult the provided list for the codes of each IC type.

FAQ

- **Q:** How many remotes can be paired with each controller?
- **A:** Each controller can be paired with up to ten (10) remotes.
- **Q:** How do I adjust the speed of preprogrammed modes?
- **A:** Press the speed buttons to adjust the speed. Hold the upper speed button for two seconds to select the fastest speed and hold the lower speed button for two seconds to select the slowest speed.
- **Q:** How do I save settings using scene buttons?
- **A:** Each scene button can save one setting. Press and hold a scene button for two seconds to save settings. Press the scene button after saving settings to recall those settings.
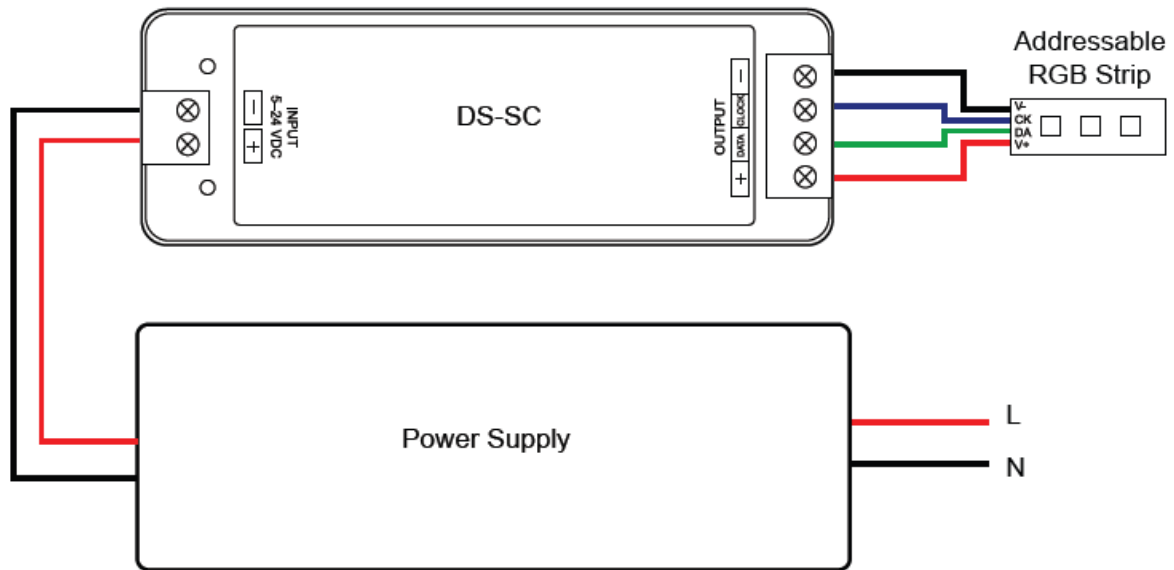
Safety and Notes

- The product should be installed and serviced under applicable national, state, and local building and electrical codes.
- To reduce the risk of electric shock, ensure that the main power source and circuit breakers are switched off before performing any installation or wiring procedures.

Battery Safety

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate them.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended time according to local regulations.

- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.
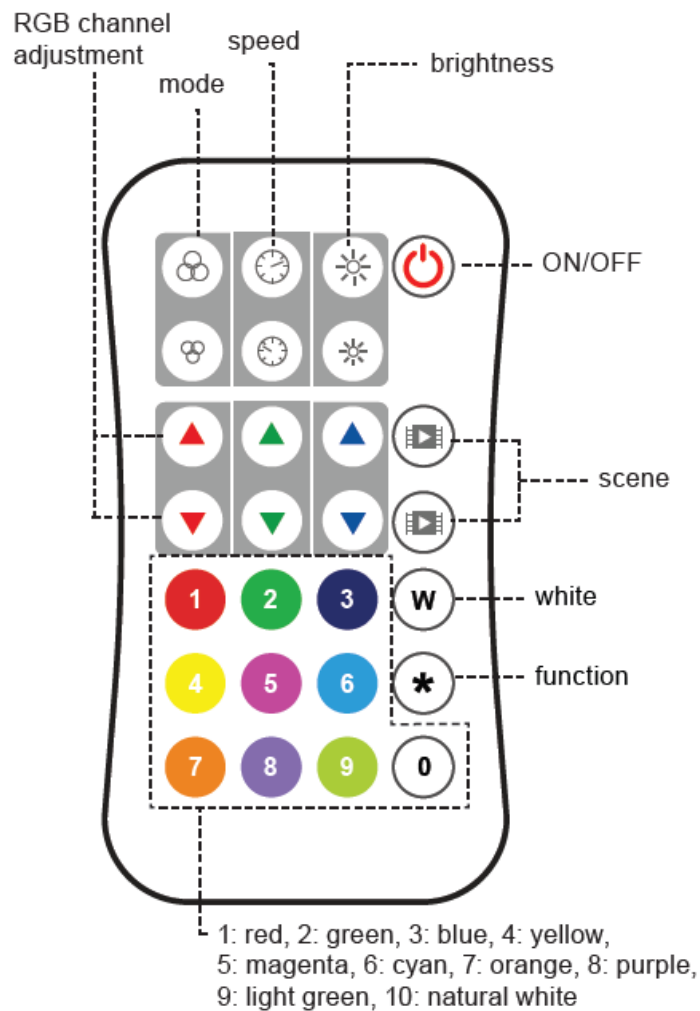

Battery Type	CR2032

WARNING

- INGESTION HAZARD: This product contains a button cell or coin battery.
- DEATH or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.
- KEEP new and used batteries OUT OF REACH of CHILDREN
- Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.

Remote Layout and Functions

RGB channel adjustment
mode
speed
brightness
ON/OFF
scene
white
function

1: red, 2: green, 3: blue, 4: yellow,
5: magenta, 6: cyan, 7: orange, 8: purple,
9: light green, 10: natural white

Mode

- Once setup is complete (see page 2) press to cycle between preprogrammed modes. Hold the upper mode (mode plus) button for two seconds to run the mode cycle demo setting.
- Hold the lower mode (mode minus) button for two seconds to return to and run mode 1.

Speed

- Press to adjust the speed of the selected preprogrammed mode. Hold the upper speed (speed plus) button for two seconds to select the fastest speed.
- Hold the lower speed (speed minus) button for two seconds to select the slowest speed.

Brightness

- Press to adjust brightness in ten percent increments.
- Hold for continuous 256 level adjustment.

RGB

- Press to adjust in ten-percent increments. Hold for continuous 256 level adjustment.

White

- Press to turn white (RGB mix) on/off. Hold for continuous 256 level adjustment.

Scene

- Each scene button can save one setting. The setting is saved by holding the scene button for two seconds.
- Press the scene button after saving settings to recall those settings.

Pairing Remote(s)

REMOTE(S) MUST BE PAIRED AS PART OF THE INSTALLATION PROCESS AND DO NOT COME PRE-PAIRED. EACH CONTROLLER CAN BE PAIRED TO UP TO TEN (10) REMOTES.

To pair a remote, press the match button on the controller, then immediately press the on/off button on the remote. The indicator light on controller will flash slowly while attempting to pair, then five times rapidly to indicate successful pairing. To unpair a remote, hold the match button for five seconds. The indicator light on the controller will flash five times rapidly to indicate successful unpairing.

Important: Read all instructions before installation.

Setting Adjustment

Strip Length (Pixel Number) Setting

- Strip length, or pixel number, can be set up to 1,024 pixels.
- Begin by pressing the function button (*), then entering the number of pixels with the number buttons, and then pressing the function (*) button again.
- **Note:** Numbers lower than 100 will need a zero (0) entered in before the number.

RGB Order

- RGB order can be set by pressing the function button (*), then entering the one-digit code corresponding with the correct RGB order using with the number pad, and then pressing the function (*) button again.

Code	RGB Order
1	RGB
2	RBG
3	GRB
4	GBR
5	BRG
6	BGR

IC Type Setting

IC type can be set by pressing the function button (*), then entering the two-digit code corresponding with the correct IC type using the number pad, and then pressing the function (*) button again. Consult the list below for the code for each IC type.

Code	IC Type
11	TM1803
12	TM1809, TM1804, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, WS2811, WS2812
13	TM1829
14	TLS3001, TLS3002
15	GW6205
16	MBI6120
17	TM1814B(RGBW)
18	SK6812(RGBW)
19	UCS8904B(RGBW)
21	LPD6803, LPD1101, D705, UCS6909, UCS6912
22	LPD8803, LPD8806
23	WS2801, WS2803
24	P9813
25	SK9822
31	TM1914A

Preprogrammed Modes

- Once the remote is paired, hold the upper mode (mode plus) button for 2 seconds to unlock preprogrammed modes which can then be cycled through using the mode buttons on the remote.

No.	Name	No.	Name	No.	Name
1	Red Race White Ground	12	Blue White Chase	23	Purple Float
2	Green Race White Ground	13	Green Cyan Chase	24	RGBW Float
3	Blue Race White Ground	14	RGB Chase	25	Red Yellow Float
4	Yellow Race Blue Ground	15	7-color Chase	26	Green Cyan Float
5	Cyan Race Blue Ground	16	Blue Meteor	27	Blue Purple Float
6	Purple Race Blue Ground	17	Purple Meteor	28	Blue White Float
7	7 Color Multi Race	18	White Meteor	29	6 Color Float
8	7 Color Race Close + Open	19	7 Color Meteor	30	6 Color Smooth Sectionally
9	7 Color Multi Race Close + Open	20	Red Float	31	7 Color Jump Sectionally
10	7 Color Scan Close + Open	21	Green Float	32	7 Color Strobe Sectionally
11	7 Color Multi Scan Close + Open	22	Blue Float		

CONTACT

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Documents / Resources

superbrightleds com DS-RT09 Addressable RGB LED Controller and Remote [pdf] User Manual
DS-RT09, DS-RT09 Addressable RGB LED Controller and Remote, Addressable RGB LED Controller and Remote, RGB LED Controller and Remote, LED Controller and Remote, Controller and Remote, Remote

References

- **User Manual**