

Important: Read all instructions prior to installation.

Dream-Color Chasing RGB Controller and Remote



Safety and Notes

- Supports twelve unique IC strip styles and has pixel adjustment from 16 to 2,048 pixels to accommodate different strip lengths.
- Input power should be 5–24 VDC (matching connected strip). Input power connection is a 5.5 mm / 2.1 mm DC barrel connector.
- Ensure all electrical connections are secure and follow the provided wiring instructions.
- Strips require data signal to operate properly. Use caution if cutting strip to custom length as interrupting the data signal will cause the strip(s) to malfunction. Strips should be powered from a single power supply connected to the controller, as additional power connections after the controller will cause the strip(s) to malfunction.
- Jumper wires/interconnects should be no more than 8" between strip sections to avoid issues with data loss.

Specifications

Model	RGB-MDC83
Operating Temperature	-4°–140° F (-20°–60° C)
Supply Voltage	5–24 VDC
Maximum Output Power	5 A
Maximum Remote Range ¹	175 ft (53.3 m)

FCC Statement

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 in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

¹Range may be decreased by interference from electrical signals and physical barriers

²This setting is for the full 5 m strip, part number NDC2-RGB150. Increase or decrease the pixel count by 1 for each additional 0.1 meter of strip.

Controller Buttons

- ON/OFF button** turns the controller on or off. The controller must be off (powered on in standby mode) to adjust IC type, pixels, and LED sequence.
- Play/pause button** can pause and then resume dynamic modes.
- Mode increase/decrease buttons** cycle up or down to the next mode. They also adjust IC type, pixel number, and LED sequence in the settings. M+ and M- perform the same function on the remote control.
- Speed up/down buttons** increase or decrease speed during dynamic modes. S+ and S- perform the same function on the remote control.
- Value selection buttons** cycle through different setting types (IC type, pixel number, and LED sequence) in standby mode.

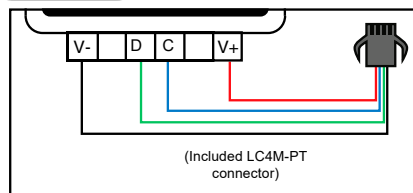
Setup and Installation

Begin the installation, by connecting an appropriate power supply to the controller. With the controller in standby mode (off) use the button to select each setting and buttons to adjust the setting values to match the table below.

Setting	Value
IC	WS2811
LED Sequence	RGB
Pixels ²	50

Once all setting adjustments have been made, and with supply power off, connect strip as shown using the provided adapter.

Wiring



Terminal	Connection	Wire Color for NDC2-RGB150
V-	strip negative	black
Data	strip data	green
CLK	strip clock	blue
V+	strip positive	red



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Modes/Programs

Mode	Program
1	Static Red
2	Static Blue
3	Static Green
4	Static Magenta
5	Static Yellow
6	Static Cyan
7	Static White
8	Red Chasing / Right
9	Red Chasing / Left
10	Blue Chasing / Right
11	Blue Chasing / Left
12	Green Chasing / Right
13	Green Chasing / Left
14	Red Chasing / Middle to Ends
15	Blue Chasing / Ends to Middle
16	RGB Chasing to Solid / Backward
17	CMY Chasing to Solid / Forward
18	RGB chasing to Solid / Middle to Ends
19	CMY Chasing to Solid / Ends to Middle
20	Seven Color Chasing to Solid / Backward
21	Seven Color Chasing to Solid / Forward
22	Seven Color Chasing to Solid (Backward) and Chasing (Forward)
23	Seven Color Chasing to Solid (Forward) and Chasing (Backward)
24	RGB Color Scan / Forward
25	RGB Scan / Backward
26	CMY Scan / Forward
27	CMY Scan / Backward
28	Seven Color Scan / Forward
29	Seven Color Scan / Backward
30	RGB Scan / Backward Then Flash Once
31	RGB Scan / Forward Then Flash Once
32	Seven Color Scan / Backward Then Flash Once
33	Seven Color Scan / Forward Then Flash Once
34	RGB Flash
35	Seven Color Flash
36	RGB Jump
37	CMY Jump
38	Seven Color Jump
39	GBM Flow / Forward
40	GCM Flow / Backward
41	CMY Flow / Forward
42	CMY Flow / Backward

Mode	Program
43	GYCM Flow / Forward
44	GB Alternating
45	GM Alternating
46	Seven Color Flow / Forward
47	Seven Color Flow / Backward
48	Green Comet / Backward
49	Red Comet / Forward
50	Red Comet / Backward
51	Blue Comet / Forward
52	Blue Comet / Backward
53	Green Comet / Forward
54	Magenta Comet / Forward
55	Cyan Comet / Forward
56	Yellow Comet / Backward
57	White Comet / Forward
58	White Comet / Backward
59	Seven Color Comet / Backward
60	Seven Color Comet / Forward
61	RC Gradual Change
62	YR Gradual Change Chasing / Backward
63	N/A
64	MB Gradual Change Chasing / Backward
65	N/A
66	BC Gradual Change Chasing / Backward
67	N/A
68	GY Gradual Change Chasing / Backward
69	N/A
70	CG Gradual Change Chasing/ Backward
71	N/A
72	WR Gradual Change Chasing/ Backward
73	N/A
74	RB Gradual Change
75	RG Gradual Change
76	MR Gradual Change Chasing/ Backward
77	N/A
78	RM Gradual Change
79	RY Gradual Change
80	BC Gradual Change
81	BM Gradual Change
82	GY Gradual Change
83	Scan Modes 1–82

Available Settings

This product is recommended for use with SBL strip part number NDC2-RGB150. If this is purchased to work with any other strip, the following settings are available. IC can be set to LPD6803, WS2801, P9813, and LPD8806 for data and clock operation, and TM1803, UCS1903, WS2811, TM1812, TM1809, TLS3011, TLS3008, and TM1829 for data operation. LED sequence can be set to RGB, RBG, GRB, GBR, BRG, or BGR. Pixel number can be set between 16 and 2,048.

