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Addressable Digital RGB LED Strips
5050 LED Strip Specifications

Project_____

Date_____Type_____

Voltage 12 VDC

ADDRESSABLE RGB

PWM Dimming
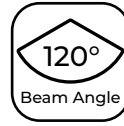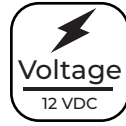
120° Beam Angle

5y WARRANTY

STN-PCRGB-A3A-10B5M-12V

Available Versions¹
- ☐ STN-PCRGB-A3A-10B5M-12V
- ☐ STW-PCRGB-A3E-10B5M-12V

SAMPLE PART NUMBER BREAKDOWN — STN-PCRGB-A3A-10B5M-12V

SERIES / TYPE / COLOR				LED TYPE / SEGMENT		IP RATING	SIZE / DENSITY / VOLTAGE		
STN Series	**PC** Strip Type	**RGB** Color	**A** LED Type	**3** LED/Segment	**A** IP Rating	**10** Strip Width²	**B** Density	**5M** Length	**12V** Voltage
STN: Non-weatherproof STW: Weatherproof	PC: Addressable RGB	RGB: RGB	A: 5050	3: 3 LEDs/seg	A: IP20 E: IP67	10: 10 mm	B: 60 LEDs/m	5M: 16.4 ft (5 m)	12V: 12 V

Overview
DreamColor series Digital RGB Strip Light has WS2811 IC technology to address each RGB LED individually. Use the compatible Magic-LED Bluetooth Controller (sold separately) and Magic-LED app to operate from the convenience of a smartphone. Select from thousands of solid colors and 200 color-chasing modes. Customize brightness, sequence length, and chase speed. This tape light is cuttable at each indicated segment and has 3M™ adhesive backing for quick mounting. Create unique light displays for nightclubs, concert venues, stages, studios, and decorative backlighting.

Controller requirments
Magic-LED app on compatible Bluetooth-equipped device. Minimum operating system requirements: iOS 8.0 (Apple) or Android 4.4
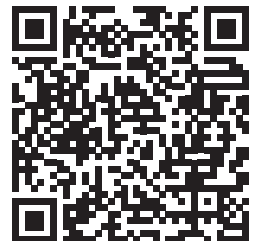
Features
- 5050 RGB LEDs with WS2811 IC to address each LED
- Single chip color chasing capabilites with compatible controller
- Magic-LED Bluetooth Controller (sold separately) and app wirelessly controls brightness, color, mode, and speed
- Choose from 200 unique color-chasing patterns
- 3M™ adhesive backing for surface mounting

Certifications and Conpliances
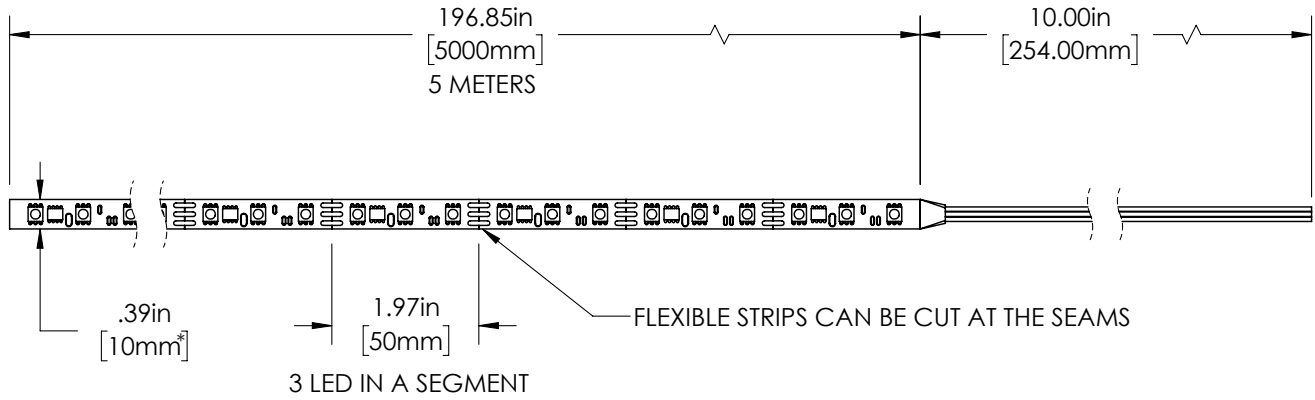- UL Listed - UL 2108 (IFDR)

Warranty
- 5-year warranty

UL LISTED

¹Contact customer service for additional options.
²Waterproof coating adds ~2 mm to width.

Dimensional Drawings

STx-PCRGB-A3x-10B5M-12V

196.85in
[5000mm]
5 METERS

10.00in
[254.00mm]

.39in
[10mm*]

1.97in
[50mm]

FLEXIBLE STRIPS CAN BE CUT AT THE SEAMS

3 LED IN A SEGMENT

.09in
[2.26mm]

∅ .06in
[1.50mm]

Waterproof coating adds ~2 mm to overall width.

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5050 LED Strip Specifications

Specifications

Model	STN-PCRGB-A3A-10B5M-12V	STW-PCRGB-A3E-10B5M-12V
IP Rating	IP20	IP67
Environmental Rating	Suitable for Dry Locations, Non-weatherproof	Suitable for Wet Locations, Waterproof
Physical Strip Width	10 mm (0.39 in)	12 mm (0.47 in)
Voltage	12 VDC	
Wattage	60 W	
Wattage per Foot	3.7 W/ft	
Current Draw	5 A	
Current Draw per Foot	305 mA/ft	
LED Color	Color Chasing RGB	
Dimming	PWM	
Beam Angle	120°	
LED Type	5050 SMD	
LED Density	18 LEDs/ft	
LEDs per Segment	3	
Minimum Cut Length	1.97 in. (50 mm)	
Max Run (Class 2)	Up to 16.4 ft (5 m)	
Input Connection Type	Pigtail	
Wire Length	1.6 ft (48.3 cm)	
LED Lifetime	36,000 hours	
Ambient Operating Temperature	-20–45° C (-4–113° F)	

Strip Flexibility
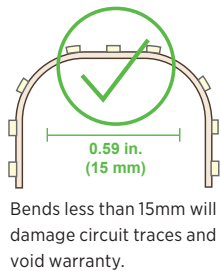
Bending strips at sharp angles will damage circuit traces and void warranty.

0.59 in. (15 mm)

Bends less than 15mm will damage circuit traces and void warranty.
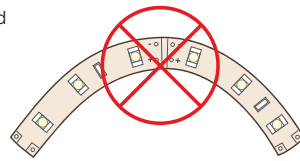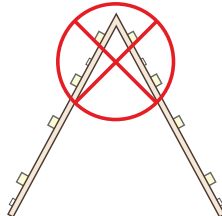
Bending strips on horizontal plane will damage circuit traces and void warranty.