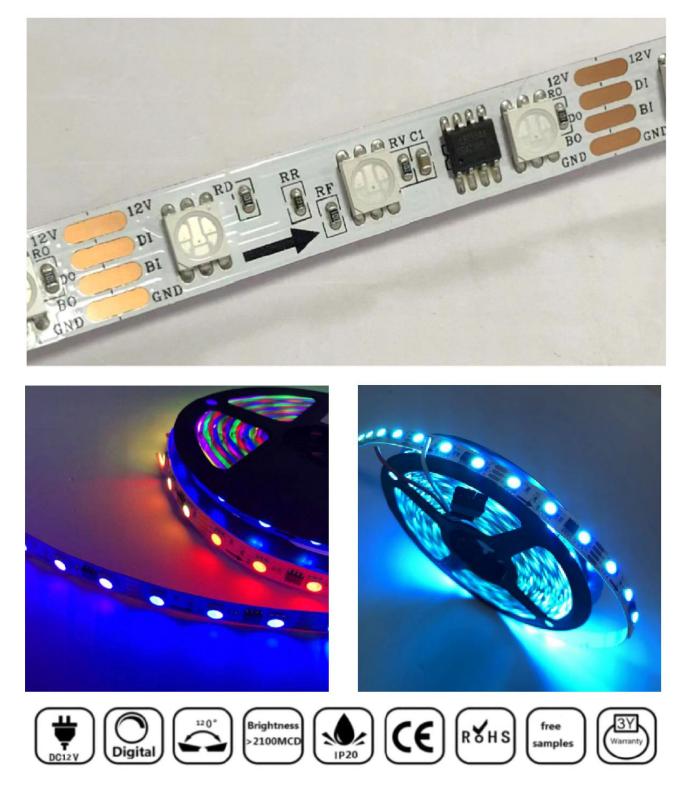


RL-STR -TM1934A-5050RGB-60-12V

Best seller: Dual signal digital 5050 RGB pixel led strip



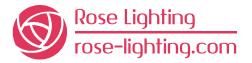


Feature

- 1) Brightness > 2100mcd, 5050 RGB led lamp with copper bracket and gold wire
- 2) 2oz pure copper PCB board with10mm width 10meter long voltage drop
- 3) Double membrance covering the FPCB board for better protection
- 4) Standard SPI protcel -TM1934 IC chipset dual signals
- 5) Cutting unit every 3 led/50mm
- 6) DC12V, 14.4W per meter(max)
- 7) LED density: 60pcs per meter
- 8) Controller system: artnet or offline or online led controller

Parameter

Part No	RL-STR-TM934A-5050RGB-60-12V
Lighting Source	San an 5050RGB led
Operate Voltage	DC12V
Consumption Watt/M	14.4 Watt per meter (max)
PCB quality	Double layer 25um 50um Copper, 2oz
LED quantity/M	60 LEDs per meter
Luminance (mcd)	2100MCD for one RGB 5050 led
IC chip	LB1934A(TM1934)
Cable	AWG22
Plug and cable	4pin female and male connector with 15cm cable at ends
Waterproof Grade	IP20/65/67/68
PCB width	10mm
warranty	2years



LED Electro-optical Characteristic

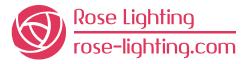


参数 Parameter	Symbol Test	测试条件	Emitted	数值 Value			单位
		Condition		Min	Тур	Max	Unit
			R	620		630	
主波长 Dominant Wavelength	λd	I _F =20mA	G	515		530	nm
			В	455	()	470	
正向电压 Forward Voltage	Vf	I _F =20mA	R	1.8		2.4	v
			G	2.8		3.4	
			В	2.8		3.4	
发光强度 Luminous Intensity			R	500		650	
	IV	I _F =20mA	G	1000		1500	mcd
			В	400		500	
角度 Viewing Angle			201/2		120		deg
反向电流 Reverse Current	$V_R = 5V$		IR			10	μA

Wavelength Group(IP=20mA, Ta=25C)

化 化 和 子 半 子 和 子 一	Rank	Е	F	G
红光 Red -	WLD	615-620	620-625	625-630
(a) (c)	Rank	Е	F	G
绿光 Green -	WLD	515-520	520-525	525-530
进来 Plus	Rank	Н	Ι	J
蓝光 Blue 一	WLD	455-460	460-465	465-470

备注:单位 nm, 波段测试误差±1 Notes: Unit nm, Wavelength Tolerance is:±1.



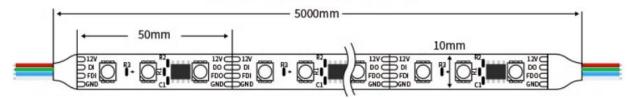
Terminal

There is 4 Pin JST SM female/male connector on both end for signal input/output and power inputs at ends.

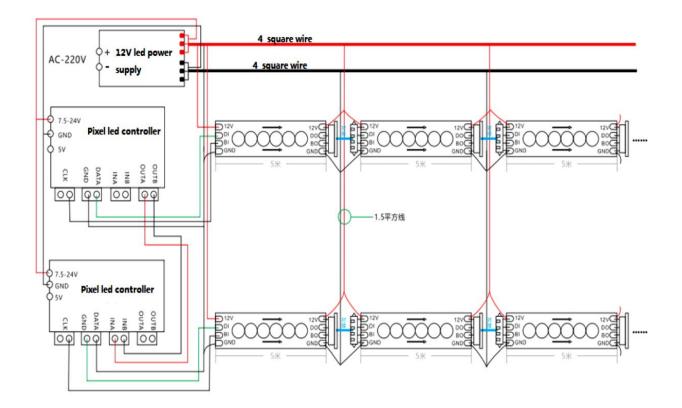
Color defination:

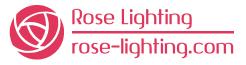
12V -- RED, DI -- GREEN, BI/FDI -- BLUE, GND -- WHITE Input: Female Connector

output : male Connector



Wiring Chart





Test Report

RED

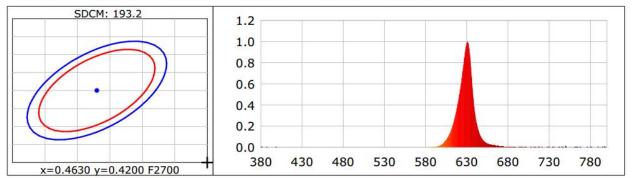
Product Number: 4

Product Infomation

Product Type: 12V 10mm 1934-60灯RGB-R

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.6941 y=0.3026 u(u CCT: Tc=1000K (duv=-0.08185) Peak Wavelength: 630.9nm Dominant Wavelength: 623.2nm				u')=0.5296 v=0.3463 v'=0.5194 Color Ratio: R=0.979 G=0.020 B=0.001 Half Bandwidth: 16.7nm				
	e: 629.3nm	23.200		Color Purity: 0.991 Gravity Wave: 629.9nm				
CRI: Ra= 1	3.6, avgR(1~		gR(1~15)= 4 5.3, GAI_EES=	1.3	TM30: Rf=	7, Rg= -1		
R1 =6	R2 = 79	R3 = 31	R4 =-22	R5 =7	R6 =94	R7 =-5	R8 =-80	
R9 =-239	R10=73	R11=-4	R12=75	R13=31	R14=60	R15=-40		
Color Quality Scale: Qa= -1.\$, Qf= -1.\$, Qp= -1.\$, Qg= -1.\$								
Q1 =6	Q2 =13	Q3 = 18	Q4 = 14	Q5 = 12	Q6 =11	Q7 =6	Q8 =1	
Q9 = 9	Q10=0	Q11=0	Q12=0	Q13=0	Q14=0	Q15=7		



Photometric Parameters

Luminous Flux: 68.381 lm Efficiency: 13.99 lm/W Radiant Power: 0.349 W Total mains efficacy: 13.99 lm/W Energy Efficiency Class: G (EU 2019/2015) Auxiliary lamp correction factor: 1.00 **Electric Parameters**

Current: 0.4073A

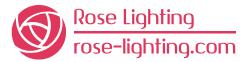
Frequency: 0.00Hz

Voltage: 12.000V Power Factor: 1.0000

Test Infomation Scan Range: 380~800:1nm ALC.: 1.0000 Stabilization Time: 1 Min Max of Signal: 45803 (3394)

Power: 4.89W

Photometric Method: sphere-spectroradiometer Photometric Condition: Sphere diameter: 1.50m, 4∏ CCD Integration Time: 640.89 ms



GREEN

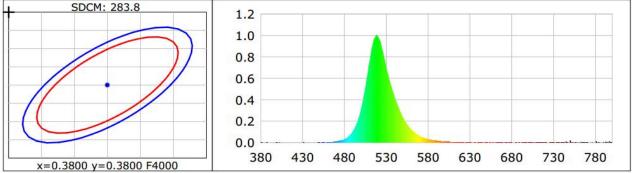
Product Infomation

Product Type: 12V 10mm 1934-60灯RGB-G

Product Number: 4

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.1644 y=0.7223 u(u')=0.0580 v=0.3822 v'=0.5733 CCT: Tc=7930K (duv=0.15870) Color Ratio: R=0.003 G=0.974 B=0.023 Peak Wavelength: 518.4nm Half Bandwidth: 32.5nm Dominant Wavelength: 525.8nm Color Purity: 0.794 Central Wave: 520.8nm Gravity Wave: 519.9nm CRI: Ra=-23.8, avgR(1~14)=-55.4, avgR(1~15)=-53.8 TM30: Rf= 2, Rg= 9 GAI: GAI_BB_8=0.7, GAI_BB_15=1.1, GAI_EES=0.7 R1 =-34 R2 = -8R3 =-23 R4 = -65R5 =-9 R6 = -14R7 =-5 R8 = -31R9 =-354 R10=-105 R11=-94 R12=-30 R13=-40 R14=38 R15=-32 Color Quality Scale: Qa = 0.3, Qf = 0.7, Qp = 0.0, Qg = 5.2 Q2 = 3 Q3 = 18Q4 = 37Q7 = 0Q8 = 0Q1 = 2Q5 = 22Q6 = 1Q9 = 0Q10=0 Q12=0 Q14=0 Q15=0 Q11=0 Q13=0



Photometric Parameters

Luminous Flux: 202.15 ImEfficiency: 41.01 Im/WRadiant Power: 0.427 WTotal mains efficacy: 41.01 Im/WEnergy Efficiency Class: G (EU 2019/2015)Auxiliary lamp correction factor: 1.00

Current: 0.4108A

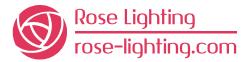
Frequency: 0.00Hz

Electric Parameters

Voltage: 12.000V Power Factor: 1.0000

Test Infomation Scan Range: 380~800:1nm Stabilization Time: 1 Min ALC.: 1.0000 Max of Signal: 46234 (3400) Power: 4.93W

Photometric Method: sphere-spectroradiometer Photometric Condition: Sphere diameter: 1.50m, 4∏ CCD Integration Time: 648.46 ms



BLUE

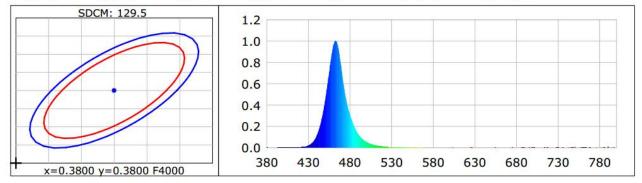
Product Infomation

Product Type: 12V 10mm 1934-60灯RGB-B

Product Number: 4

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.1377 y=0.0551 u(u')=0.1627 v=0.0977 v'=0.1465								
CCT: Tc=100000K (duv=-0.16922) Color Ratio: R=0.008 G=0.163 B=0.830								
Peak Wavelength: 462.7nm Half Bandwidth: 22.9nm								
Dominant Wavelength: 474.7nm Color Purity: 0.968								
Central Wave: 462.7nm Gravity Wave: 462.8nm								
CRI: Ra=-48.5, avgR(1~14)=-80.8, avgR(1~15)=-75.0 TM30: Rf= 1, Rg= 36								
GAI: GAI_BB_8=3.2, GAI_BB_15=4.2, GAI_EES=3.5								
R1 =-10 R2 =-38	R3 =-131	R4 =-82	R5 = 3	R6 =-51	R7 =-44	R8 =-33		
R9 =-261 R10=-214	R11=-113	R12=-100	R13=-28	R14=-27	R15=7			
Color Quality Scale: Qa= 8.2, Qf= 11.1, Qp= 2.3, Qg= 27.2								
Q1 =62 Q2 =35	Q3 =8	Q4 = 13	Q5 = 33	Q6 = 63	Q7 =86	Q8 = 32		
Q9 =1 Q10=0	Q11=0	Q12=0	Q13=2	Q14=8	Q15=50			



Current: 0.4126A

Frequency: 0.00Hz

Photometric Parameters

Luminous Flux: 47.656 lmEfficiency: 9.63 lm/WTotal mains efficacy: 9.63 lm/WEnergy Efficiency Class: G (EU 2019/2015)Auxiliary lamp correction factor: 1.00

Electric Parameters

Voltage: 12.000V

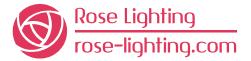
Power Factor: 1.0000

Test Infomation Scan Range: 380~800:1nm Stabilization Time: 1 Min ALC.: 1.0000 Max of Signal: 45781 (3168) Pov

Power: 4.95W

Radiant Power: 0.745 W

Photometric Method: sphere-spectroradiometer Photometric Condition: Sphere diameter: 1.50m, 4∏ CCD Integration Time: 259.77 ms



WHITE

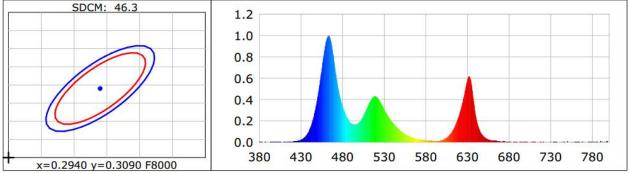
Product Infomation

Product Type: 12V 10mm 1934-60灯RGB-全亮

Product Number: 4

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.2308 y=0.2337 u(u')=0.1728 v=0.2625 v'=0.3937 CCT: Tc=100000K (duv=-0.00860) Color Ratio: R=0.201 G=0.657 B=0.142 Peak Wavelength: 463.6nm Half Bandwidth: 23.5nm Dominant Wavelength: 477.5nm Color Purity: 0.441 Central Wave: 463.2nm Gravity Wave: 463.4nm CRI: Ra= 53.0, avgR(1~14)= 32.7, avgR(1~15)= 31.6 TM30: Rf= 56, Rg= 102 GAI: GAI_BB_8=130.9, GAI_BB_15=129.4, GAI_EES=142.5 R3 = 75 R7 = 60R1 = 39R2 = 59 R4 = 62R5 = 61R6 = 61R8 =7 R9 = -210R10=5 R11=54 R12=63 R13=39 R14=82 R15=16 Color Quality Scale: Qa= 58.3, Qf= 48.8, Qp= 76.9, Qg=123.7 Q1 =61 Q2 =70 Q3 = 79 Q4 = 69 Q5 =86 Q6 = 90 Q7 =81 Q8 = 74 Q9 = 73 Q10=49 Q11=28 Q12=22 Q13=40 Q14=73 Q15=57



Photometric Parameters

Luminous Flux: 302.16 lmEfficiency: 26.97 lm/WRadiant Power: 1.437 WTotal mains efficacy: 26.97 lm/WEnergy Efficiency Class: G (EU 2019/2015)Radiant Power: 1.437 WAuxiliary lamp correction factor: 1.001.001.00

Current: 0.9336A

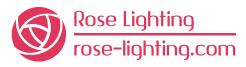
Frequency: 0.00Hz

Electric Parameters

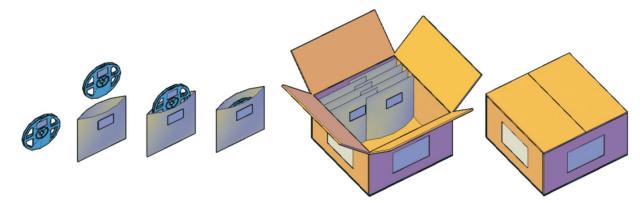
Voltage: 11.999V Power Factor: 1.0000

Test Infomation Scan Range: 380~800:1nm Stabilization Time: 1 Min ALC.: 1.0000 Max of Signal: 43119 (3171) Power: 11.20W

Photometric Method: sphere-spectroradiometer Photometric Condition: Sphere diameter: 1.50m, 4∏ CCD Integration Time: 260.11 ms



Package



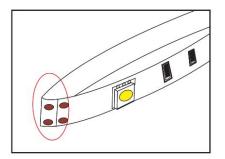
Note:

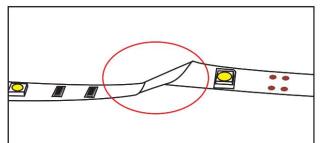
1.One Aluminum Foil Bag for one roll of LED strip, 5M/roll.

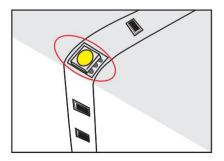
- 2.All the packaging materials are RoHS standard.
- 3.Heavy stuff are not allow to be loaded above the packaging box.

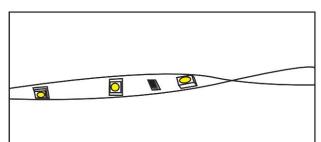


• When install the led strip, please note the installation technique. The led strip can be bent, but not distorted, as shown below:

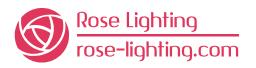


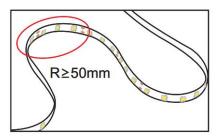






Distortion(Wrong)





Bend(Right)

- LED strips are low voltage products, you must use the power supply(transformer). Please don't connect the led strip directly to the AC110 or AC220V, otherwise it will burn out the LED strips.
- Clean up the installation surface, it will ensure the reliability of the adhesive.
- The electrical connection process must be operated by a professional person.