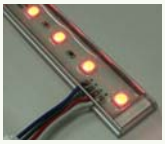
RGB BAR Series



BRILIANT SOLUTION FOR FULL COLOR ILLUMINANCE

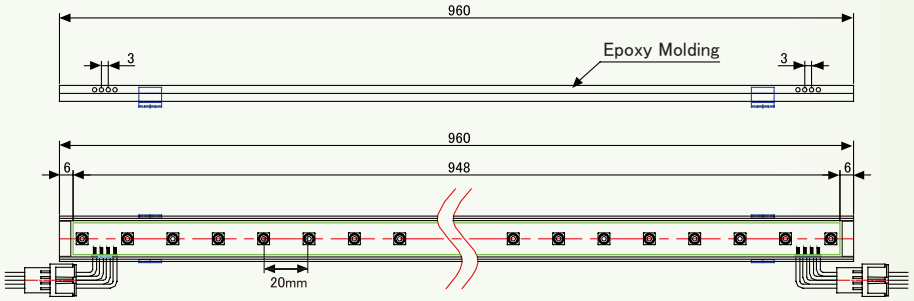
FULL COLOR RGB SYSTEM

The RGB BAR series is a solid state full color LED strip bar fabricated with aluminum heat sink to maximize its lifetime. Using aluminum heat sink with thermal tape efficiently dissipates heat generated by LED lamps. It is also briliant solution on easy on-site installation with provided mounting clip and extruded wire connector from side of body which is ideal solution for keeping same pitch of LED lamps when you work out for long distance of linear lighting. It is low-depth and compact but its balanced structure provides excellent performance compared to other LED Bars. It uses cost-effective 24V power input and operates at low temperature which makes them perfect for lighting panels and also for everyday lighting applications.

- Guaranteed lifetime up to 42,500 hours with 70% lighting output
  *24 hour constant load may result less operating hours with lower lighting output. Estimated lifetime is based on normal usage of 10 hours per day.
- IP65 weather proof system
- 16 Million full color LED lighting system with sophisticated 3 chips in 1 SMD lamp
- Aluminum heat sink with transparent resin efficiently dissipates heat generated by LED lamps
- Efficiently balanced structure
- Extremely small and light solution for low-profile lighting panels
- Easy on-site installation

PHYSICAL

Length : 120/240/480/960mm
Width : 21mm
Thickness : 9.5mm
Weight : 26/56/106/224g
Lamp Picth : 20 mm



OPTICAL CHARACTERISTICS

Model	Luminous Intensity(cd)			CCT (Kelvin) & Dominant Wave Length		Viewing Angle
	Red	Green	Blue	Color	Typical	$2\Theta_{1/2}$
RGB BAR 960	27.3	57.6	10.5	White	9,000K	120
RGB BAR 480	13.6	28.8	5.2	Red	625nm	120
RGB BAR 240	6.84	14.4	2.64	Green	527nm	120
RGB BAR 120	3.42	7.2	1.32	Blue	460nm	120

*CRI (Color Rendering Index) for white product types is 70 / *Spectral width at half of the peak intensity / *Luminous Flux measuring equipment is CAS140B
*Viewing angle is the off axis angle from lamp centerline where the luminous intensity is half of the peak value / *CCT 5% tes ter tolerance
*Dominant wavelength is derived from the CIE 1931 Chromaticity diagram and represents the perceived color
*Color temperature for white is strictly controlled by bin rank system and it consists of three ranks which should not be used simultaneously.

VISUAL TECHNOLOGIES
Unit 6/102-110 North View Drive Sunshine West VIC 3020
T 9311 5722 **F** 9311 5733 **E** info@visualtechnologies.com.au
www.visualtechnologies.com.au

VISUAL TECHNOLOGIES
DIGITAL SIGNS & SUPPLIES

Specifications

ELECTRICAL CHARACTERISTICS

Model	Current Dissipation	Power Dissipation	Operating Power	Max Serial Connection
RGB BAR 960	400mA	9.6W	DC24V	5.0 Meters
RGB BAR 480	200mA	4.8W	DC24V	5.0 Meters
RGB BAR 240	100mA	2.4W	DC24V	5.0 Meters
RGB BAR 120	50mA	1.2W	DC24V	5.0 Meters

THERMAL

Cooling : AL Heatsink, Ambient air
Maximum operating temperature : 60˚C (140˚F)
Minimum operating temperature : -25˚C (-13˚F)
Maximum storage temperature : 60˚C (140˚F)
Minimum storage temperature : -30 C (-22 F)

SAFETY FEATURES

IP65 : prevents water & dust penetration

CONSTRUCTION

LED Lamp : 3-in-1 RGB, 5252
PCB : FR-4
Lead wire : Silicon
Protective resin : transparent epoxy resin
Heat sink : Extruded aluminum 6063

APPLICATIONS

Panel lighting
Linear lighting
Border lighting
Point-Of-Purchasing signage
Art & sculpture and cove lighting

APPROVAL

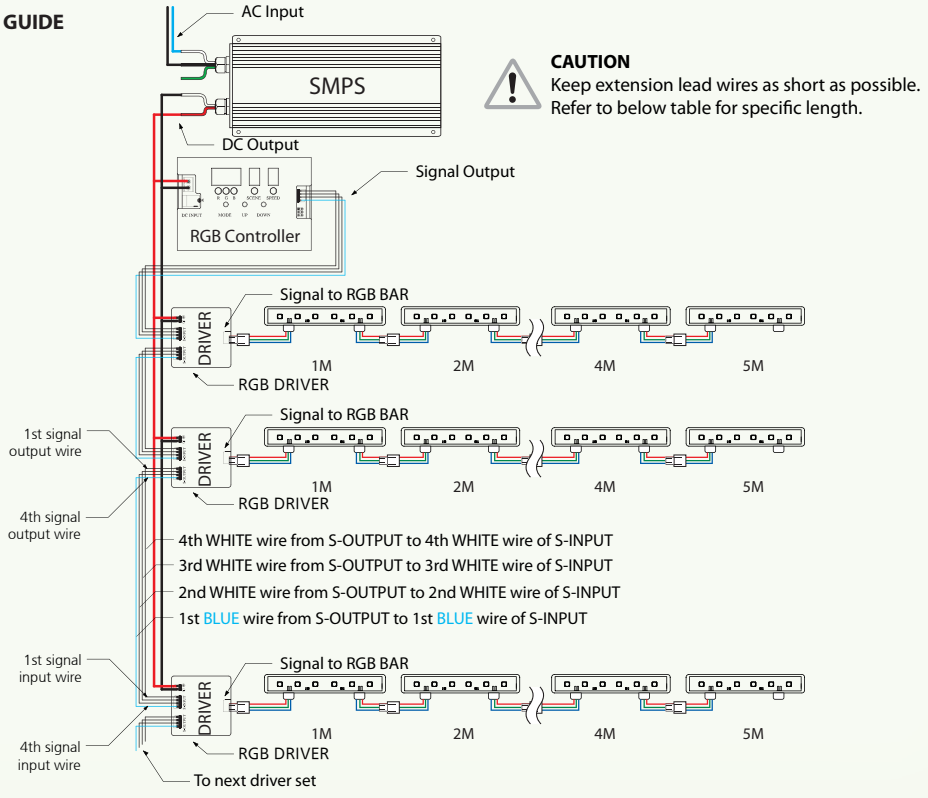
EN 55015/A2 : 2009
EN 61547/2009
EN 62031/2008
EN 62471/2006

CE RoHS

FEATURES

SAMSUNG LED | IP65 | WEATHER PROOF | 42,500H LIFETIME | DC24V

WIRING GUIDE



CAUTION
Keep extension lead wires as short as possible.
Refer to below table for specific length.

Specifications subject to change without notice

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