

SPECIFICATIONS

ELECTRICAL

Model	Current Dissipation	Power Dissipation	Operating Power	Max Serial Connection
BAR RGB 960	480mA	11.52W	DC24V	3.0 Meters
BAR RGB 480	240mA	5.76W	DC24V	3.0 Meters
BAR RGB 240	120mA	2.88W	DC24V	3.0 Meters
BAR RGB 120	60mA	1.44W	DC24V	3.0 Meters

Electronic dimming control supported

FULL COLOR
RGB SYSTEM

IP65

42,500H
LIFETIME

DC24V

Model	Length	Width	Thickness	Weight	LED Lamp Pitch
BAR RGB 960	960mm	21mm	9.5mm	224g	20mm
BAR RGB 480	480mm	21mm	9.5mm	106g	20mm
BAR RGB 240	240mm	21mm	9.5mm	56g	20mm
BAR RGB 120	120mm	21mm	9.5mm	26g	20mm

PRECAUTIONS



Use precautions to avoid damages to the product or injuries of users. Any actions against following contents will cause serious issues such as malfunction, electric shock, or burn.

DC24V USE DC24V ONLY

AC INPUT DO NOT USE AC INPUT



Do not cut or rejoin wires while product is connected with live power source



Avoid performing installation under rain or high humidity for outdoor use



Do not use the product under circumstances listed below

- High temperature spots over 60°C (140°F)
- Spots draw extreme moisture or dust
- Spots have corrosive gas or highly effected by electromagnetic field



Do not perform actions listed below

- Alter or modify
- Touch LED lamps with sharp objects
- Put glue or silicon over the LED lamps



Maximum driver quantity per serial connection is limited. Failure causes overload of current and damages to the product



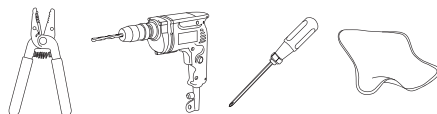
Refer to 'WIRE THICKNESS' table to use proper wire thickness between SMPS and the first LED module
Failure will cause dimmed output



Cable length between SMPS and the first LED module is limited. Refer to 'CONNECTION WITH POWER SUPPLY' on page 2

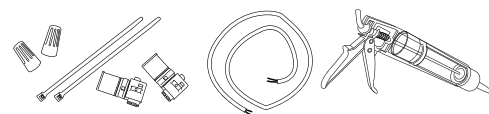
PREPARATION

TOOLS REQUIRED



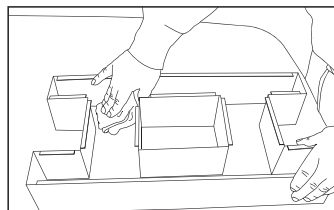
Wire Stripper, Drill, Screw Driver, Wiper

SUPPLIES REQUIRED

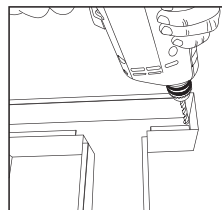


Wire Nuts, Cable Ties, IDC Connectors, VCTF(PLTC) Cable, (Optional : Silicon and Screws)

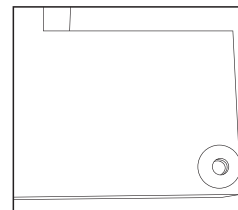
PREPARE CHANNELS



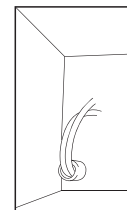
1. Clean moisture and dust inside



2. Make holes

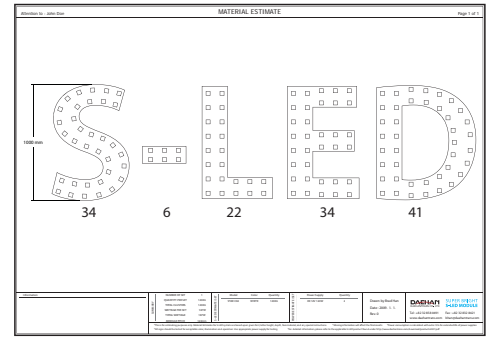
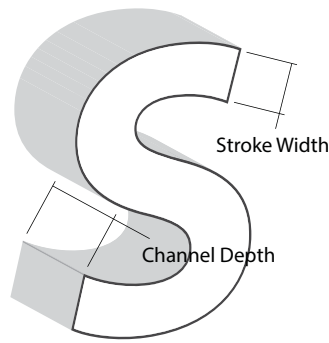


3. Use bushing to protect wires



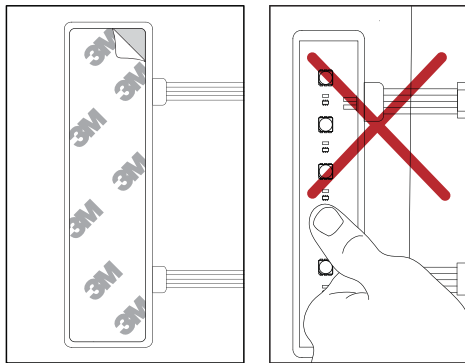
1. Wipe out dust, water, and oil inside. 3M tape will come off easily if product is mounted on uncleaned surfaces.
2. Make holes for wires from modules to SMPS.
3. Without bushins, wires will easily be cut and short-circuit will occur.
*Use white paint inside the channels for better reflection

1. DETERMINE LAYOUT



SUPPORTS FOR OUR SIGNMATES
Ask us to obtain accurate layout

2. PEEL AND STICK



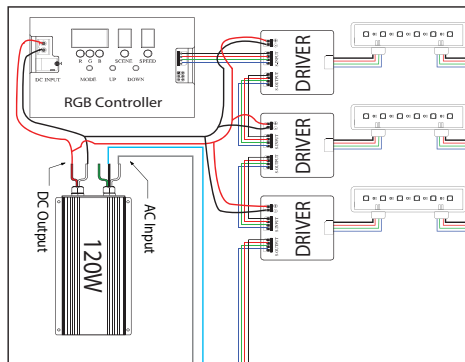
Using predetermined layout and LED placement from step 1, remove 3M tape on the back of modules and stick them into place. Ensure modules are firmly attached on the surface.



CAUTION

When handling the module, avoid pressing down directly on top of LED lamp

4. CONNECT WITH POWER SUPPLY



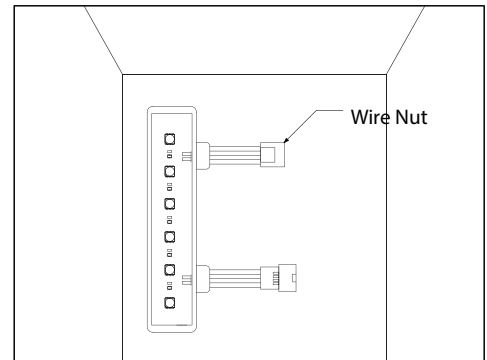
Using predetermined layout and LED placement from step 1, divide channels into sections and distribute each section to corresponding power supplies.



CAUTION

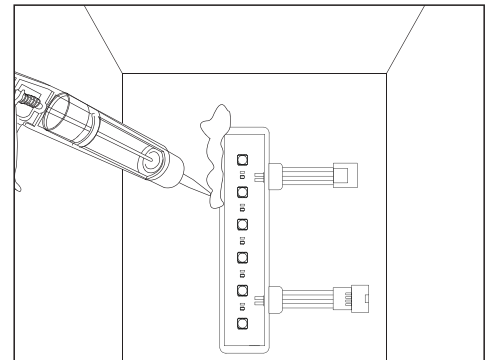
Before connect with power supplies, check polarity on every connections

3. CAP ALL UNUSED WIRES



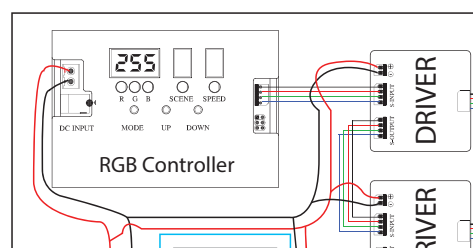
The strand of modules should not be looped to create a closed circuit.

5. FIX MODULES PERMANENTLY



SILICON : If desired, modules can be secured with silicon. Do not to put silicon on the top of the LED lamps.

6. CHECK LIGHTS AND SPOTS



DAEHANTRANS CO.,LTD

#7-11 Songdo-Dong, Yeonsu-Gu, Incheon, Korea

Tel. +82 32 858 0491 Fax. +82 32 832 8421 enquiry@daehantrans.com / www.daehantrans.com

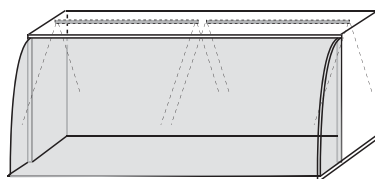
SET CONTROLLER TO STATIC WHITE MODE

1. Push and hold 'MODE' button for 3 seconds to switch to static mode. Indicator on R, G, or B should be on.
2. Use 'UP' and 'DOWN' button to set all numeric values of R, G, B to '255'. Modules should have static white color now.
3. Check for dark spots on all channels

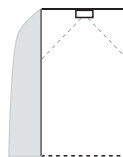
LAYOUT DENSITY GUIDELINES

Use recommended length for pitch between each module to achieve optimum lighting output while maintaining lowest unit cost. Failure or misplacing will cause dimmed spots or uneven appearance of light on the surface.

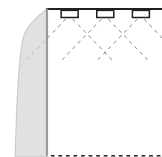
In case of showcase



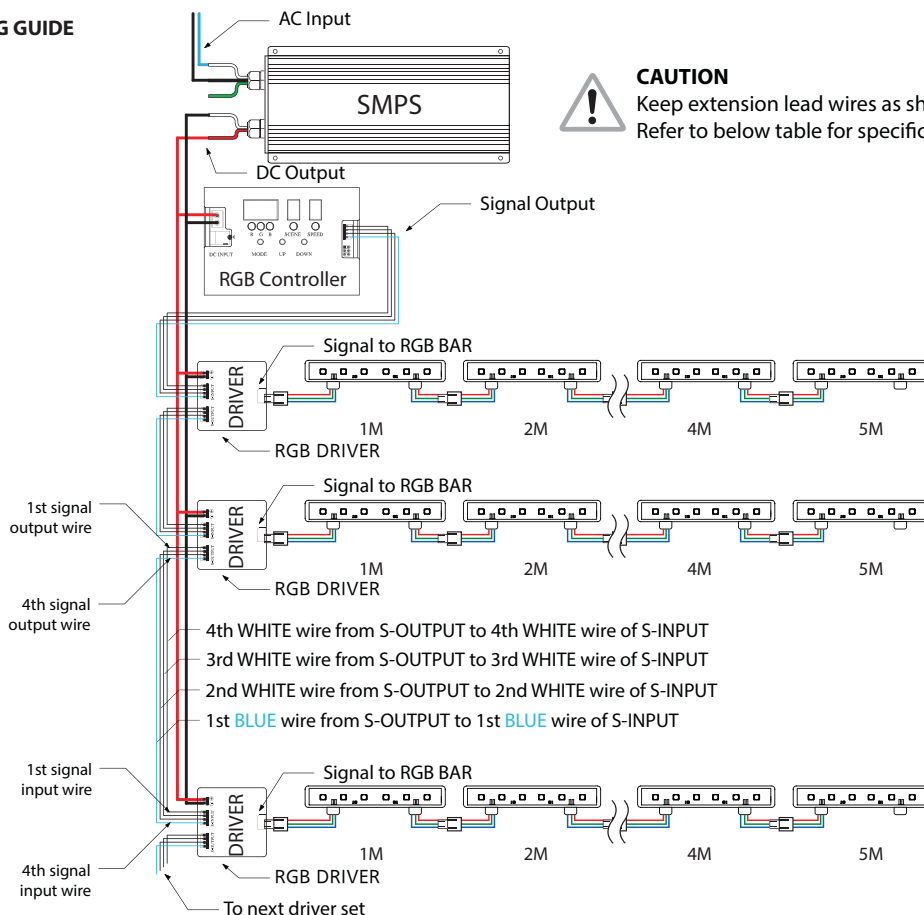
FRONT VIEW



SIDE VIEW



WIRING GUIDE



CAUTION

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

TROUBLE SHOOTING

Entire sign or leg does not light after complete installation.	Check connection from power supply lead to first module. Make sure polarity of connections made at the power supply lead and any jumper wire is correct. Power supply outputs should be connected red-to-red and white-to-white.
Still does not light.	Check output voltage of power supply using a voltmeter. The output voltage should be $24.0\text{VDC} \pm 0.5\text{VDC}$. If there is no output voltage, have a licensed electrician check input voltage. Make sure power supply is connected correctly and getting primary power. If power supply is connected properly and getting primary power and there is still no output voltage, try a different power supply.
Still does not light.	If power supply is getting primary power and the modules do not light, there may be a short in the secondary wiring. Check all connections and cap all loose wires.
Beginning of a leg lights, but the entire leg does not light or lights intermittently.	The primary cause of a portion of a S-LED leg not lighting or lighting intermittently is a bad connection or reverse polarity connection between the modules that light and the modules that don't light. Check this connection.
One module does not light, but all others in the leg light.	S-LED is designed so if one module fails, it will not cause the entire sign or leg to go out. If one module does not light, but all others in the leg do, replace this module with a new one.
All modules light, but some of them are dimmed.	Check each run has no more than maximum number of modules. Also ensure that type of the extension wire from SMPS to the first module is correct. If wires are not thick enough to transmit current from SMPS, this will cause voltage drop and will dim the modules at
Dark spots or dimmed spots occur.	Channel depth is too low, or center distance between modules is too far. Refer to 'LAYOUT DENSITY GUIDELINES' for more information.
Still has spots.	Covering acrylic is not intended for LED illumination. Use light diffusing acrylic sheets which are specially made for LED light source.