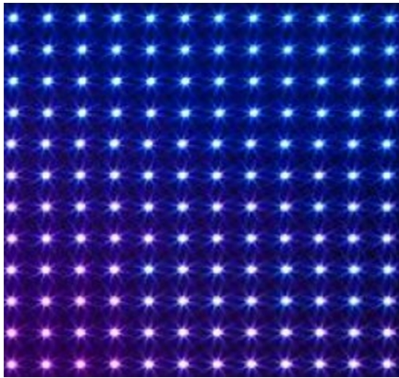


Luminux Matrix RGB LED panel is a modular LED backlight unit with a bright LED array on a rigid and light weight aluminium circuit board. The panel delivers consistent bright RGB light with no hot spots or shadows. The patented epoxy coating design is not only for waterproof, it also prevents the circuit board damaged from water, scratch, oxidization and erosion. With the patented epoxy coating design, the panel can be applied in indoor and outdoor environment. Luminux Matrix RGB LED Panel offers different module sizes, power and even customizable in shapes, power and sizes. Now customers are free to create their projects without any limitation.



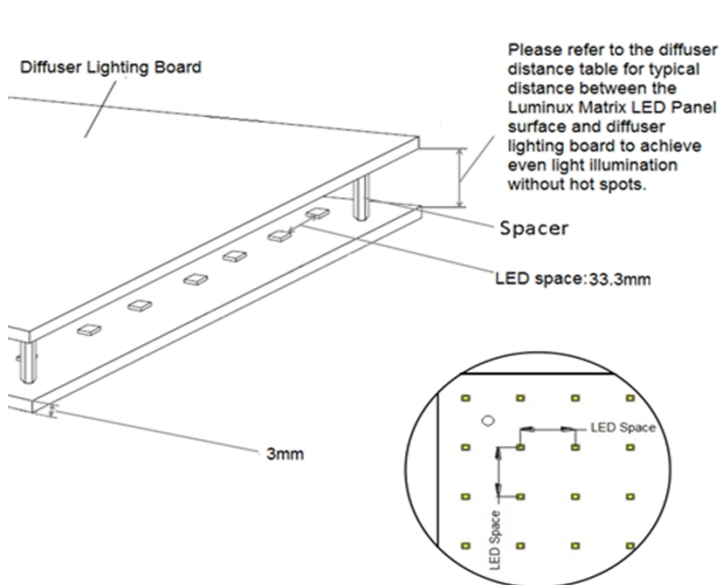
### Applications

- Replacement for traditional fluorescent light
- Menu boards
- Signage boxes
- large format signs
- Brand displays backlight

### Features

- RGB Modular design
- Less than 3.5mm ultra-thin thickness design
- Slim and light weight
- Bright and even illumination
- Color Tuneable
- DMX and RGB dimming compatible
- Coated with patented Epoxy for waterproof, circuit protection, anti-oxidization and erosion
- Easy installation for single module or multiple modules
- Superior consistency of light quality
- Customizable in sizes, shapes and power
- Fully integrated heat sink and LED for superior reliability and durability
- Perfect for indoor and outdoor backlight applications

## Luminux Matrix RGB LED Panel - LED Space and Diffuser Distance Guide

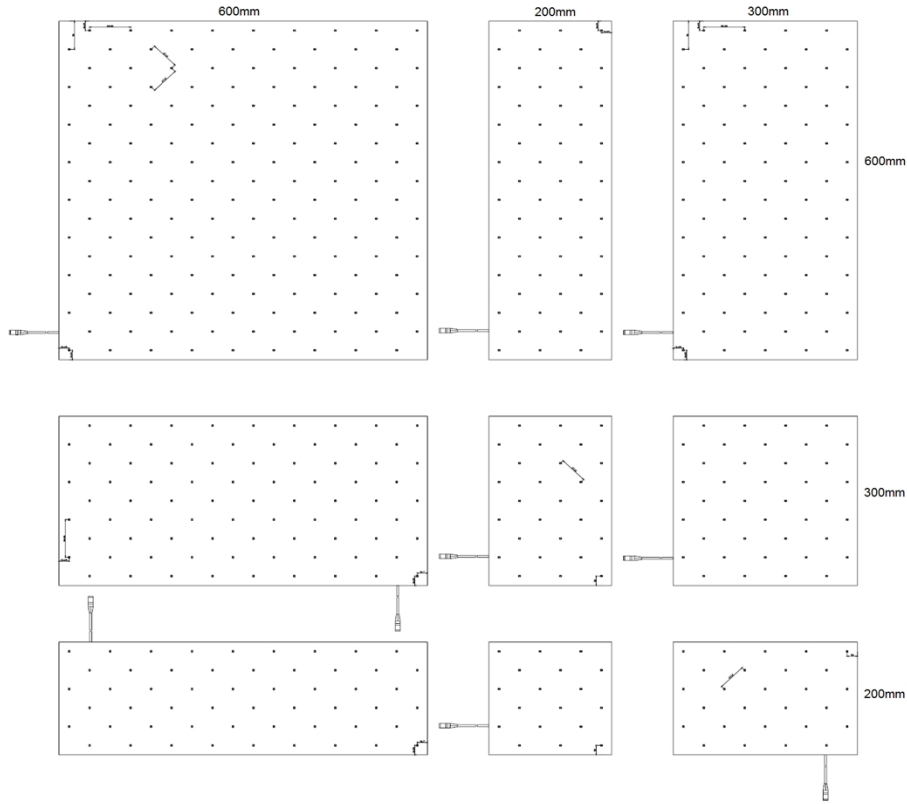


LED Space	Min. Distance Between LED Panel & Diffuser	Lumen per M <sup>2</sup>
33.3mm	48.0mm	4500lm / M <sup>2</sup>

\* The above table is based on 12VDC, 25°C ambient temperature, parallel connection, 6000K color temperature and covered by 2447 milky acrylic diffuser board measurement.

\* The diffuser is not a part of the Matrix LED Panel

## Matrix RGB LED Panel - Combination Example



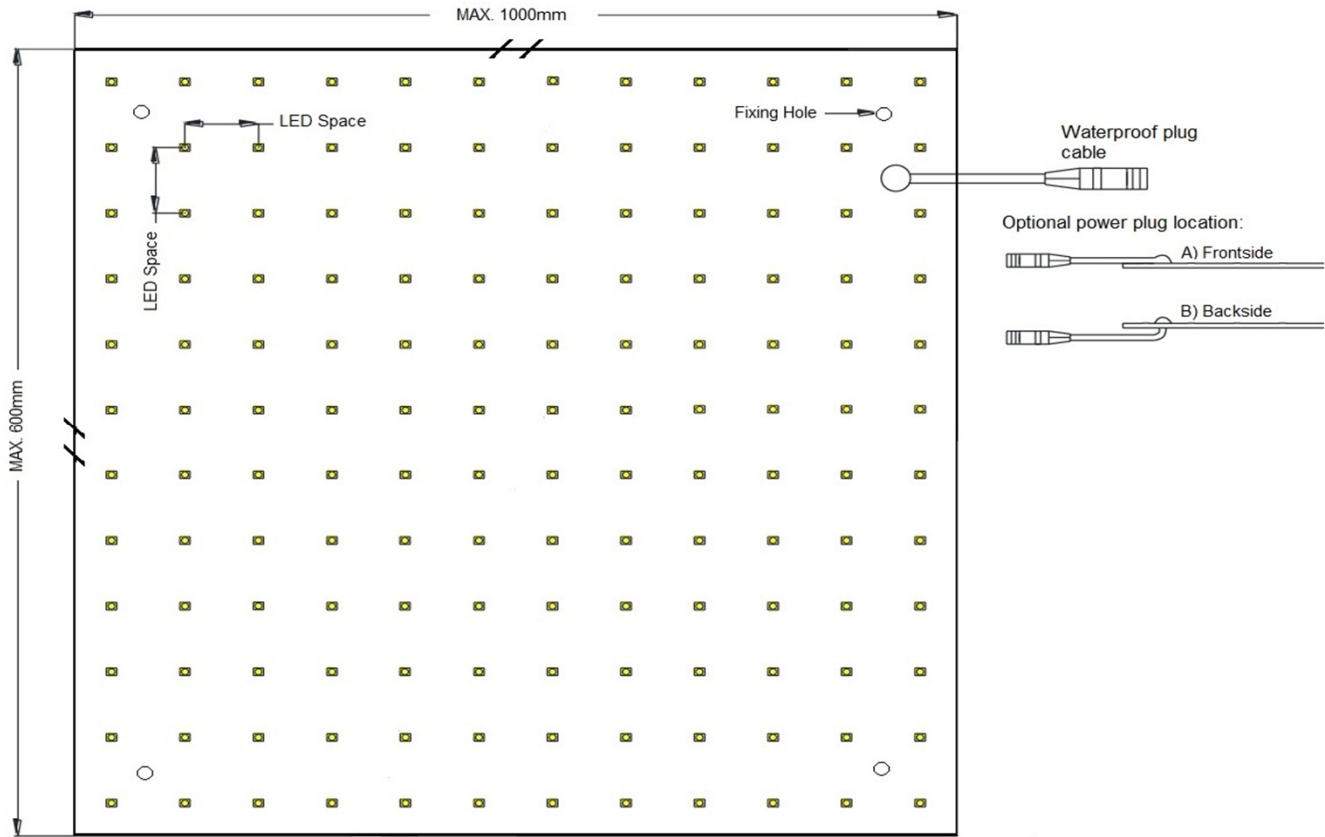
## Luminux Matrix RGB LED Panel Standard Sizes and Parameter

Model	Dimension (mm)	LED Space	No. of LED	Lumen	Input Power Watts	Color
LMP-5-33-2020RGB	200 X200mm	33.3mm	36	180lm	12VDC 6.6W	RGB
LMP-5-33-3030RGB	300X300mm	33.3mm	81	405lm	12VDC 15W	RGB
LMP-5-33-3060RGB	300X600mm	33.3mm	162	810lm	12VDC 30W	RGB
LMP-5-33-6060RGB	600X600mm	33.3mm	324	1620lm	12VDC 60W	RGB

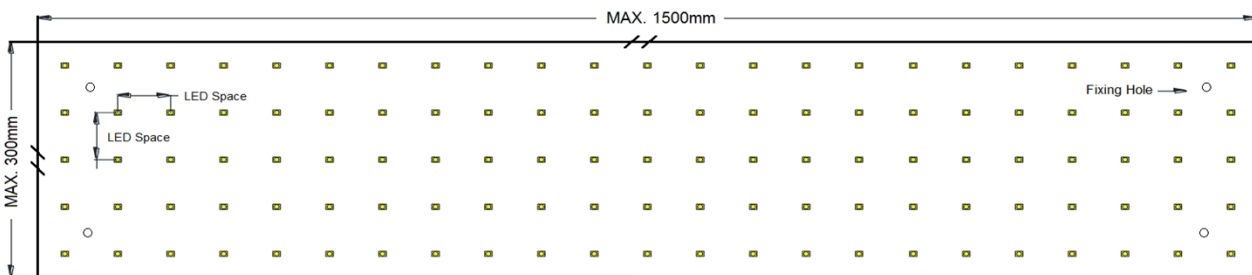
\* The above table is based on 12VDC, 25°C ambient temperature, parallel connection and RGB mix color temperature measurement.

## Matrix LED Panel Customize Maximum Dimension

Option A:

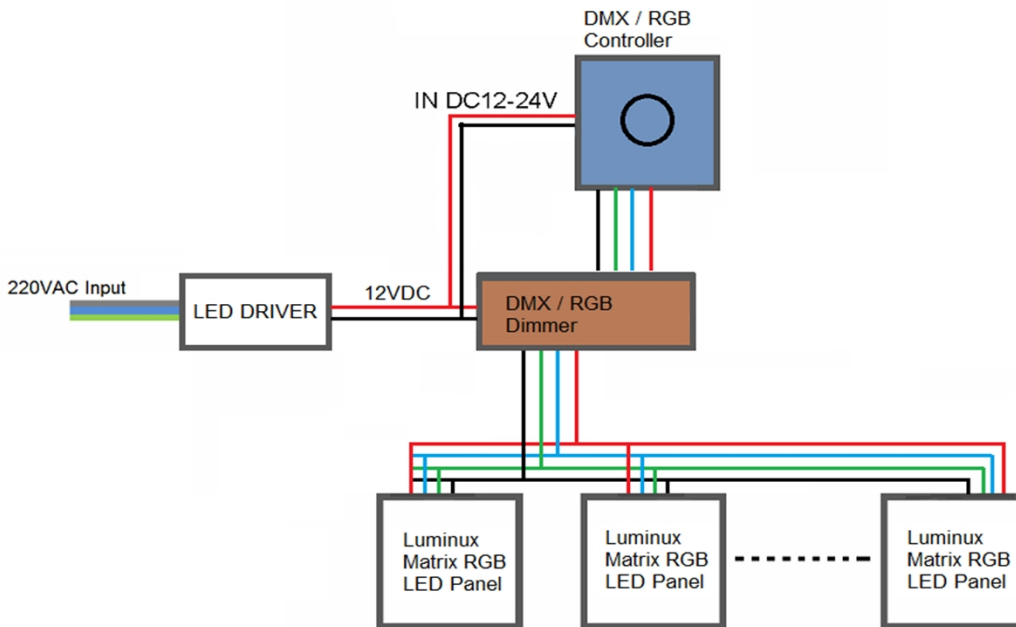


Option B:



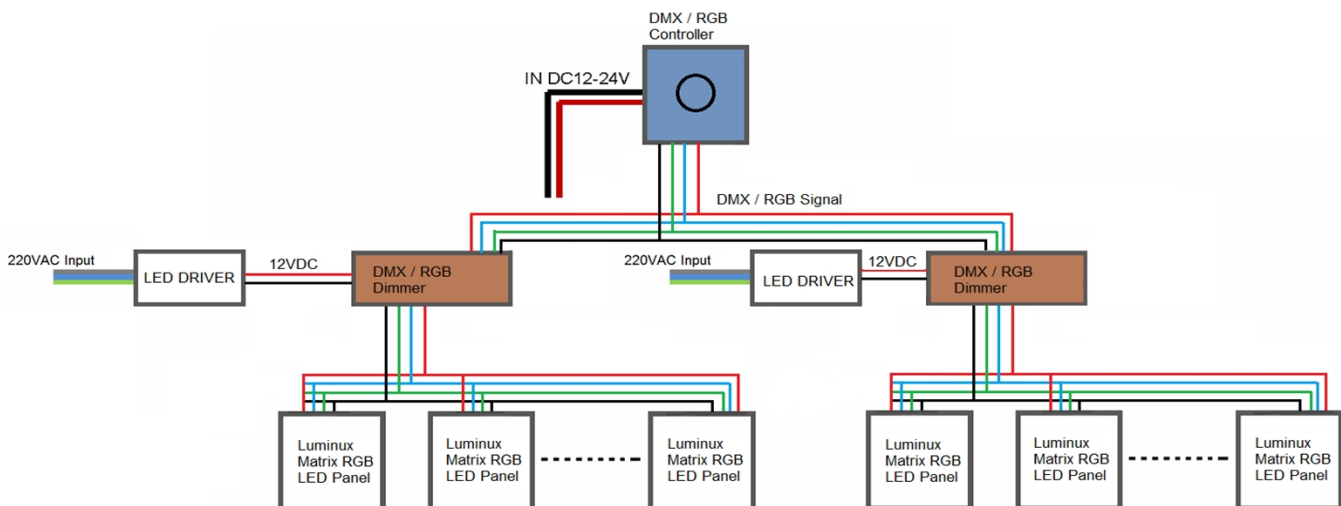
## Connection and Wiring Diagram

### Single DMX / RGB Dimmer Connection and Wiring



Caution: 1) Please calculate the total power required by the LED panels, then select the right power of LED Drivers.  
2) Please contact our lighting consultant for more information

### Multiple DMX / RGB Dimmers Connection and Wiring



Caution: 1) Please calculate the total power required by the LED panels, then select the right power and dimming function of LED Drivers.  
2) Please contact our lighting consultant for more information.

## Safety Instructions

- 1) Luminux Matrix LED RGB Panel and LED Driver must not be mechanically and electrically stressed.
- 2) Only the qualified electrician should be allowed to perform the installation.
- 3) Correct polarity must be observed. Wrong polarity may damage the LED panel.
- 4) All LED panels are connected in parallel mode.
- 5) Use only approved 12VDC power supplies with this LED panel. All other power supplies may damage the LED's and void the warranty.
- 6) Pay attention to Electrostatic Discharge (ESD) precautions when installing the LED panel. All connection must be confirmed before turn on the power.
- 7) Damaged by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against harmful elements.
- 8) Don not bend or twist LED panel. Bending or twisting can damage LED light source.
- 9) Don't use adhesive to attach the backing panel for mounting, It is not designed to support the weight of the LED panel.
- 10) Do not glue graphics, laminate, light diffuser or any material to the panel surface as the adhesives will change light diffusion properties and damage the material.
- 11) The LED panel must not be used as support. It should be fixed in the frames and walls. Otherwise it may damage the LED panel.

## Limited Warranty

The Manufacturer warrants that products manufactured shall be free from defects in materials and workmanship under normal use and proper installation for a period of one (1) year from the date of the original purchase (except power adaptors and dimmers which carry their manufacturer's standard warranty). The exclusive remedy and entire liability under this warranty will be for repair or replacement at Manufacturer's option.

## What the warranty does not cover

The above warranty shall not apply to product defects resulting from:

- (a) Improper installation or maintenance
- (b) Misuse, neglect or accident
- (c) Damage during shipping or unpacking
- (d) Damage from hazardous environment
- (e) Use of power adaptor with supply voltages other than that for which it is specified
- (f) Use of power adaptors not tested and recommended by the manufacturer
- (g) High voltage surges
- (h) Electrostatic discharges
- (i) Operation outside the product's specification
- (j) Failure to follow product instructions

The warranty is void if products are disassembled, modified, or improperly used or not fully paid within payment terms. The Manufacturer shall not have any obligation to repair or replace product until the purchaser returns defective product to the Manufacturer. Any replacement product may be either new or like-new, and may contain remanufactured parts, equivalent to new in performance. Returned products are subject to inspection and evaluation at the Manufacturer's facility. Under no circumstances, shall the Manufacturer be responsible for repair or replacement at the purchaser's facility or at any other installation site at its own cost.