

## FAQ - StormTight RGB System

The RGB system uses superior LED technology with advanced controllers that allow you to create mass color variations and customized program sequencing to maximize sign awareness in any environment.

### Where can you use this system?

It can be used in Channel letters, Cove Lighting, Architectural mood enhancement, Casinos, indoors and outdoors. Modules are sealed against the elements.

There are **4 elements** to most applications: 12 volt system (VDC)

- RGB Encapsulated StormTight Modules ( 28 modules per box)
- One Master Controller: This device communicates with the PC to create mass color variations. It signals the various sub-controllers to present colors on cue.
- Three different power supplies to choose from, ranging from 60watt, 150watt, to 320watt.
- Four sub-controllers 30 watt, 60watt, 60watt with remote control and 600watt ( 2 channels 300w x 2 )

### Software

Each RGB system includes a software CD and an RGB manual . The software allows you to program the RGBs to your requirements. It easily interfaces with a PC.

### Project Estimations:

Process: usually we work from a concept/drawing to estimate the amount of RGB modules .Then we calculate the amount of components needed, i.e. type of power supplies, master controller and the quantity and type of sub controller.

Once this information is processed we give the customer the "project estimation" (a module layout and components estimate).

### Power Supplies:

CV125-60: 120 volts input, 60 watts, 12volt output **Max load:** 56 modules

CV1212-150: 120-240 volts input, 150 watts, 12volt output **Max load:** 140 modules

CV1225-320: 120-240 volts input, 320 watts, 12volt output **Max load:** 280 modules

### Facts - Specifications on RGB modules

Each module consumes 1.08 watts.

The master controller uses 2 watts and each of the sub controllers use 1 watt each.

Efficacy is 12 Lumens / watt.

The RGB Led optical dispersion measures Approximately 110 degrees.

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### Facts - Specifications Master Controller and Sub-Controller

Master Controller Capability: one master controller can control up to 128 sub-controllers

Each Sub controller provides a signal to one or two strings of RGB modules.

Generally the more complex the animation sequencing (ie, multi strings, multiple logic) the more sub controllers the system will need.

All of the modules in the string will perform similarly according to the instructions of its particular sub controller.

This system does not allow individual module control only string control. So, the number of sub controllers depends on the number of rows or lines that the customer wants to **control individually**.

### Optics and Illumination:

We recommend that the modules to be spaced at a distance of 3 " to 6" from the sign or channel letter face (depending on the material used i.e. acrylic, polycarbonate, etc)

Module population (density): generally a good starting point is 3 modules/foot (depending on the application). Some applications might need 4 modules/foot.

One string of modules will cover a 5 inch wide letter stroke.

Light transmission through sign face: we recommend the use of Ultra Translucent Acrylic # 2447 for the sign face. This allows up to 20% more light transmission as compared with the "sign white " 7328 Acrylic.

### Programming Support:

The customer can select from the following options:

- BASIC SYSTEM: The system can be sold pre-programmed, therefore the customer will receive the system with a pre-programmed animation.
- COMPLETE SYSTEM: The system can be programmed at the shop. A software and manual will be given to the customer that will explain how to use the system. As a result the customer can change the animation as often as he/she desires.

For a nominal fee we offer the programming of master controllers in house. The customer has to require this through Allanson customer service at 1-800-668-9162.

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