

# Light-O-Rama



## ShowTime

### Cosmic Color Ribbon

## 150 RGB LEDs with Controller

[www.lightorama.com](http://www.lightorama.com)

### CR150D

- DMX and Light-O-Rama protocols
- 2 million colors possible
- 150 super bright 5mm x 6mm RGB LEDs on a 16.4' flexible ribbon with controller and universal voltage power supply
- Ribbon is sealed in a rectangular, weatherproof silicone tube
- Each set of 3 RGB LEDs is individually controllable — 50 physical color pixels
- Configurable resolution — 50 pixels (150 channels), 25 pixels (75 channels), 17 pixels, 16 pixels, 10 pixels, 5 pixels, 2 pixels and 1 pixel
- Choice of sequential (all R, all G then all B) or RGB channel numbering
- Macro effects — Single Sequence Editor channel manipulates the entire ribbon at its maximum resolution
- Can conform to a 3" diameter bend along its long dimension and a 3' diameter bend in the plane of the ribbon
- All Light-O-Rama effects supported
- Two trigger inputs
- Legacy mode for software not supporting more than 16 channels per controller (macro effects available in legacy mode)



The CR150D is a flexible, weatherproofed linear circuit board with 150 super bright RGB SMD LEDs spaced evenly along it. It includes the 150 channel controller and universal voltage power adapter as shown above.

Each set of three RGB LEDs has its own ribbon resident IC-controller and can be directed to any of two million colors. In its raw form at full resolution, the ribbon appears as 150 channels. The RGB feature of the Sequence Editor reduces this to 50 channels, one per RGB pixel. To make the ribbon easier to use, there are three new concepts.

The first is on-the-fly logical resolution selection. The ribbon can be set to one of eight logical resolutions. When the ribbon is configured as one logical pixel, the entire ribbon is controlled by one RGB channel in the Sequence Editor.

The second is macro effects. A macro effect allows you to manipulate the entire ribbon with one channel. If you wanted to make an arch leap from left to right, you could set the color with one RGB channel and then fade the macro effect channel. As the fade went from 0 to 99%, the arch would fill from left to right. The leap occurs at the full 50 pixel resolution of the ribbon, but instead of programming 150 channels, you only program 3 channels (1 for color, 1 to set the effect number and 1 to use the effect.)

The third is color effects. A color effect is used instead of the RGB channels. It allows the ribbon to be filled with colors. You can then put a macro effect like a chase on top of the color effect allowing complex elements to be added to you show with minimal programming.

### Specifications

Configuration	150 x 5060 SMD RGB LEDs 120° beam angle
Control channels	150 = 50 * RGB or 150 = 50 * R, 50 * G, 50 * B
Power	36 watts @ 12 VDC
Operating Temp	-20° F to 140° F
Power adapter	100-240 VAC
Ribbon dimensions	197" L x 9/16" W x 3/16" H
Controller dimensions	5¼" L x 2¾" W x 1" H

## Imagine it, then do it

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