

## Tri-Color RGB LED Controller

- This device connects to a servo controller in exactly the same way a servo motor is connected
- Each of the three colors (red, green and blue) has a separate connector and is controlled independently of the other colors
- Power for this board is obtained from the servo controller (valid voltage range is 4.7V – 12V)
- When connecting to controller software (such as VSA) the valid pulse 'range' should be set to values between 1000 and 2000 as shown in the diagram. A value of 1000 (or less) will turn the LEDs off and a value of 2000 (or more) will set the LED at its maximum brightness.

### VSA Setup

Configure 3 separate channels (one for each color)

Set 'Type' to SSC-32 Servo

Set to Max to 2000

Set to Min to 1000

Track	Name	Type	Port	Addr	+Value	-Value	Default
<input checked="" type="checkbox"/> 0	LED Eyes Red	SSC32 Servo	COM1	0	2000	1000	1500
<input checked="" type="checkbox"/> 1	LED Eyes Green	SSC32 Servo	COM1	1	2000	1000	2000
<input checked="" type="checkbox"/> 2	LED Eyes Blue	SSC32 Servo	COM1	2	2000	1000	1000
<input checked="" type="checkbox"/> 3	jaw	SSC32 Servo	COM1	3	1337	915	915
<input checked="" type="checkbox"/> 4	Rotate head	SSC32 Servo	COM1	4	1820	1125	1405

Connect each channel connector to servo controller such as Lynxmotion SSC-32

