



# ULTRA 650 RGBA

## LS-U650-RGBA-B200-A

### COLOR CHANGING LED MODULES

#### ULTRA 650 RGBA

ULTRA 650 RGBA modules are premium color changing signage modules engineered for constant current so there is no lumen drop across the full length of any string. The ULTRA 650 RGBA module features four chips in each LED - red, green, blue and amber for added warmth. Use DMX controls to tune ULTRA 650 RGBA modules to any color.

**Applications:**

- Channel letters
- Box signs
- Cove lighting
- Applications starting at depths of 3 in. (75 mm)



**RoHS**

**IP66**



12V DC



5 YEAR WARRANTY



VERSALENZ<sup>®</sup>  
ADVANCED OPTICS



CAPZUL<sup>®</sup>  
WATERPROOF

#### ORDERING GUIDE

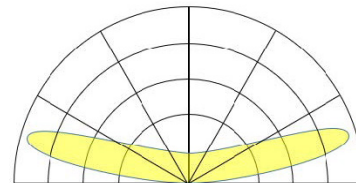
Part Number	White Color Temperatures & Colors	LEDs per Module	Module Spacing (mm)	Number of Modules		Nominal Light Output (lm)		
				Per Foot	Per Meter	Per Module	Per Foot	Per Meter
LS-U650-RGBA-B200-A	All	3	200	1.5	5	50.3	76.7	251.5
	RED (617 - 633 nm)	3	200	1.5	5	10.8	16.5	54
	GREEN (517 - 533 nm)	3	200	1.5	5	25.5	38.9	127.5
	BLUE (457 - 473 nm)	3	200	1.5	5	5.2	7.9	26
	AMBER (602 - 618 nm)	3	200	1.5	5	8.8	13.4	44

#### RECOMMENDED CONTROL OPTIONS

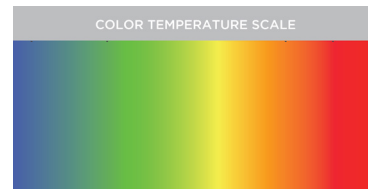
Options	Image	Description	Part Number
1 For basic setting		4 Zone Color Changing Glass Touch Wall Controller	AWCRGBWWBK
		5 Channel DMX Interface	DMXINFLCD5
2 For wireless connection		4 Channel RF Interface	RFINTERFACE4CH
		4 Zone RGBW RF Remote	RFREMOTERGBW4Z
		RF to WiFi Converter	RFWIFICONVERT
3 For advanced setting		4 Channel Waterproof DMX LCD Interface	DMXINFWLCD4
		5 Zone DMX Wall Controller	DMXCTRL
		10 Zone DMX Wall Controller	DMXCTRLD

#### LUMINOUS DISTRIBUTION

Batwing Beam Pattern



COLOR TEMPERATURE SCALE



CONSTANT CURRENT



UV RESISTANT

#### PRODUCT RATINGS

<b>Luminous Efficacy</b>	41.9 lm/W (All) 36 lm/W (Red) 85 lm/W (Green) 17.3 lm/W (Blue) 29.3 lm/W (Amber)	<b>Input Current</b>	100 mA (All) 25 mA (Red) 25 mA (Green) 25 mA (Blue) 25 mA (Amber)
<b>Wattage per Module</b>	1.20 W/module (All) 0.30 W/module (Red) 0.30 W/module (Green) 0.30 W/module (Blue) 0.30 W/module (Amber)	<b>Power Supply Loading</b>	46 modules per 60 W
<b>Input Voltage</b>	12 V DC	<b>Ingress Protection</b>	IP66
		<b>Operating Temperature</b>	-13° - +131°F (-25° - +55°C)
		<b>L70 Lifetime @ 60° C</b>	50,000 hours
		<b>Warranty</b>	5 Year Limited Warranty



**MODULE DIMENSIONS**

Part Number	Length (in. / mm)	Width (in. / mm)	Height (in. / mm)
LS-U650-RGBA-B200-A	2.62 / 66	0.61 / 15	0.38 / 10

**POWER SUPPLY LOADING**

Module Type	Per 60W Power Supply			
	Max. # of Modules Per String	Total # of Modules	Total # of Feet	Total # of Meters
LS-U650-RGBA-B200-A	44	46	30.7	9.3

**LAYOUT GUIDE**

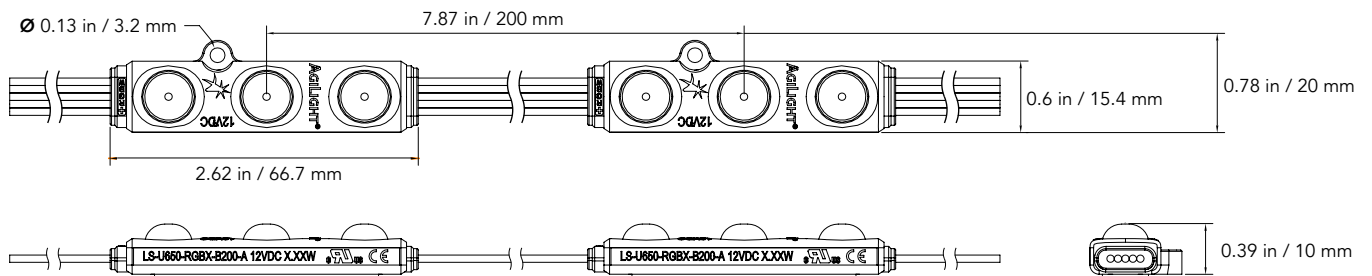
Channel Depth (in.)	Single Row		Multiple Rows		Channel Depth (mm)	Single Row		Multiple Rows	
	Max. Stroke	Module Spacing	Row Spacing	Module Spacing		Max. Stroke	Module Spacing	Row Spacing	Module Spacing
3	6	5	4	4	75	150	125	100	100
4	9	6	6	7	100	225	150	150	175
5	12	8	10	8	125	300	200	250	200
6	14	8	12	8	150	350	200	300	200

\*Module spacing is defined by 7328 white sign face material

**SHIPPING INFORMATION**

Module Type	Specs	Packaging Quantity			Carton Weight	Carton Dimensions			Box Weight	Box Dimensions			
		Per Bag	Per Box	Per Carton		L	W	H		L	W	H	
LS-U650-RGBA-B200-A	Modules	100	600	1000	18.5 kg (40.7 lbs)	20.5	14.6	10.2	9 kg (19.8 lbs)	13.78	9.84	9.06	in.
	Feet	65.6	328.1	656.2		520	370	260		350	250	230	mm
	Meters	20	100	200									

**DIMENSION DRAWING**



1. UL ONLY - These products are only suitable for connection to a UL rated Class 2 power source rated 12 Volt or less.
2. UL ONLY - These products are intended for use only when connected to a power source that complies with UL rated Class 2 voltage and energy limited circuit.
3. UL ONLY -When these units are connected to a UL rated Class 2 circuit, they are not to draw a total wattage of greater than the secondary or output rating of the UL rated Class 2 power supply.
4. These products may be secured in place in the end product by any means available.
5. These products are suitable for use in dry, damp, and wet locations. Not suitable for submersed applications.