

## Quick Start Guide LumiGrow® Pro 325™, Pro 325™ HV and Pro 650™

LumiGrow products are engineered from the ground up to promote healthy plant growth without energy waste. That's why LumiGrow smart horticultural lighting solutions are the #1 choice of leading growers.

LumiGrow is also the only LED product line tested and selected for use by leading agricultural research institutions. In side-by-side comparisons, the LumiGrow Pro 325 solution consistently out-performs 1000-Watt high-intensity discharge (HID) lamps while it consumes 70% less energy. The LumiGrow Pro 650 shatters the PAR barrier and provides twice as much blue and red as a 1000-Watt HID lamp while it consumes 40% less energy.

The LumiGrow team is committed to ensuring that your LumiGrow lights perform as expected. Remember that help is just a phone call or mouse click away. To reach a technical expert, visit <http://www.lumigrow.com/support> or call 800-514-0487, ext. 2. For International support, call +1-415-382-0733.

### Safety First - IMPORTANT

Take common sense precautions when operating your LumiGrow system. Always keep in mind the following:

- **Do not immerse the unit in water or expose it to water for prolonged periods**
- **Do not use the unit with a damaged power cord, plug or electrical outlet**
- **Do not unplug the unit by pulling on the power cord**
- **Connect the unit to a properly grounded outlet only**
- **Bare wired units must be installed by a certified electrician**
- **Do not place lens of powered unit directly on table or other flat objects**

If you have any questions about the safe operation of your LumiGrow Pro fixture, please contact us Monday-Friday at (800) 514-0487, ext. 2 or submit a support request at <http://www.lumigrow.com/support>. We're here for you!

### Technical Specifications

SPECIFICATION	Pro 325	Pro 325 HV	Pro 650																
Energy Consumption	325 Watts	325 Watts	650 Watts																
Operating Voltage	100-240 V <sub>AC</sub>	249-528 V <sub>AC</sub>	100-240 V <sub>AC</sub>																
Recommended Electrical Service Allowance	<table border="1"> <tr> <td>120V</td> <td>240V</td> </tr> <tr> <td>5A</td> <td>2.5A</td> </tr> </table>	120V	240V	5A	2.5A	<table border="1"> <tr> <td>277V</td> <td>347V</td> <td>400V</td> <td>480V</td> </tr> <tr> <td>2A</td> <td>1.6A</td> <td>1.4A</td> <td>1.2A</td> </tr> </table>	277V	347V	400V	480V	2A	1.6A	1.4A	1.2A	<table border="1"> <tr> <td>120V</td> <td>240V</td> </tr> <tr> <td>8.5A</td> <td>5A</td> </tr> </table>	120V	240V	8.5A	5A
120V	240V																		
5A	2.5A																		
277V	347V	400V	480V																
2A	1.6A	1.4A	1.2A																
120V	240V																		
8.5A	5A																		
Typical Running Current	<table border="1"> <tr> <td>120V</td> <td>240V</td> </tr> <tr> <td>2.7A</td> <td>1.3A</td> </tr> </table>	120V	240V	2.7A	1.3A	<table border="1"> <tr> <td>277V</td> <td>347V</td> <td>400V</td> <td>480V</td> </tr> <tr> <td>0.97A</td> <td>0.84A</td> <td>0.7A</td> <td>0.58A</td> </tr> </table>	277V	347V	400V	480V	0.97A	0.84A	0.7A	0.58A	<table border="1"> <tr> <td>120V</td> <td>240V</td> </tr> <tr> <td>5.34A</td> <td>2.7A</td> </tr> </table>	120V	240V	5.34A	2.7A
120V	240V																		
2.7A	1.3A																		
277V	347V	400V	480V																
0.97A	0.84A	0.7A	0.58A																
120V	240V																		
5.34A	2.7A																		
Dimensions	9-7/8" W x 10-5/8" L x 5-3/4" H	9-7/8" W x 10-5/8" L x 5-3/4" H	9-7/8" W x 16-5/8" L x 5-3/4" H																
Weight	9 lbs (4 kg)	10 lbs (4.5 kg)	16 lbs (7.2 kg)																
Operating Frequency	50-60 Hz																		
Operating Temperature	-4° F to 140° F (-20° C to 60° C)																		

## Getting Started

1. Remove the LumiGrow Pro fixture from the box and unwrap it.
2. Attach the 2 enclosed hangers to the hanger brackets.
3. Use a rope, chain or scaffolding to hang the LumiGrow Pro fixture at the appropriate distance to achieve desired coverage. The closer you hang the LumiGrow Pro fixture to the plant canopy the more energy you transfer to your plants.

**General Guidelines** (refer to the chart below for light coverage areas) Coverage area depends on crop type and whether the fixture is being used as a supplement to other lighting or as sole-source lighting. A general rule of thumb is that the coverage is comparable to that of a 1,000-Watt HID, i.e. 64-100 square feet for supplemental and 16-36 square feet for sole source applications.

Height (ft)	Coverage (sq ft)	Pro 325 & Pro 325 HV		Pro 650	
		PAR ( $\mu\text{mol} \cdot \text{m}^{-2} \cdot \text{s}^{-1}$ )	LumiPAR ( $\mu\text{mol} \cdot \text{m}^{-2} \cdot \text{s}^{-1}$ )	PAR ( $\mu\text{mol} \cdot \text{m}^{-2} \cdot \text{s}^{-1}$ )	LumiPAR ( $\mu\text{mol} \cdot \text{m}^{-2} \cdot \text{s}^{-1}$ )
2	16	510	1020	995	1990
2.5	25	326	652	637	1274
3	36	227	454	442	884
3.5	49	167	334	325	650
4	64	128	256	249	498
4.5	81	101	202	196	392
5	100	82	164	159	318
5.5	121	67	134	132	264
6	144	57	114	111	222
6.5	169	48	96	94	188
7	196	42	84	81	162
7.5	225	36	72	71	142
8	256	32	64	62	124
8.5	289	28	56	55	110
9	324	25	50	49	98
9.5	361	23	46	44	88
10	400	20	40	40	80

4. Connect AC input power cord to an appropriate power source. For bare wired installations, a certified electrician must perform installation. LumiGrow Pro luminaires should only be installed on an AC branch circuit protected by a Listed circuit breaker rated at 20A maximum.
5. Turn on your circuit breaker and power up the luminaire.

## Operating Your LumiGrow Pro Fixtures

### Adjusting the Red, White and Blue Control Knobs

LumiGrow is designed for simple, worry-free operation. Setting the red, white and blue knobs to 10 will achieve healthy plant growth.

The LumiGrow Pro series lights' independently adjustable knobs enable you to fine-tune lighting, providing plants with precisely the portion of the light spectrum they need at each growing phase. Expert growers may desire to experiment with the ratio of blue to red to affect internodal length and flowering.

Your LumiGrow Pro light is designed and built in the USA to provide 50,000 hours of optimal illumination without degradation – that's 5 times as long as any HID lamp.

### **White-only View Mode**

Use the white-only view mode to inspect your plants under white light. To turn on the white-only view mode flip the toggle switch to the eye icon.

### **LumiGrow® Product Warranty and Return Policy**

LumiGrow, Inc. warrants to the purchaser of its LumiGrow products, when shipped in its original carton, that they will be free from defects in materials and workmanship for the time period set forth below. During the warranty period, LumiGrow, Inc. will, at its option, either repair the defect or replace the defective product or part thereof at no charge to the purchaser for parts during the warranty period.

The LumiGrow Pro 325™ and Pro 650™ carry five (5) year warranties from date of purchase.

Peripherals, accessories and other ancillary items purchased from LumiGrow, Inc. will carry their manufacturer's standard warranty.

This warranty does not apply to any product which has been damaged, defaced, subjected to misuse, abnormal service or handling (including shipping damage), or which has been altered in design or construction.

The warranty described above is in addition to whatever implied warranty may be granted to purchaser by law. (All implied warranties, including the warranty of merchantability and fit for use, are limited to the period(s) from date of purchase set forth above).

Neither sales personnel of the seller nor any other person is authorized to make any warranties other than those described above, or to extend the duration of any warranties beyond the time period described herein.

The warranty described above shall be the sole and exclusive warranty granted by LumiGrow, Inc. and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of LumiGrow, Inc. to the purchaser with respect to the product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strictly liability or otherwise.

In no event shall LumiGrow, Inc. be liable or in any way responsible for any damages or defects in the product which were caused by repairs or attempted repairs performed by anyone other than LumiGrow, Inc.

Nor shall LumiGrow, Inc. be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages so the above exclusion may not apply to you. This warranty does not apply to improper installation or grounding, acts of God, such as lightning strikes and/or electrical line power surges, floods, earthquakes, hurricanes, tornados, vandalism, vermin such as slugs, ants, rodents, etc., or improper electrical connections.

## Warranty Service Procedures

In order to enforce the rights under this limited warranty, the purchaser must notify LumiGrow, Inc., of a warranty claim by contacting (800) 514-0487, ext. 2. At that time, the purchaser will be asked to provide dated proof of original purchase. Acceptable forms of this shall be a photocopy or scanned image of the dated original invoice faxed or emailed to LumiGrow, Inc. The purchaser will also need to provide a full description of the type of problem occurring, a contact name, address and telephone number and/or email.

## LumiGrow Satisfaction Guarantee

LumiGrow wants you to be thrilled with your new lighting purchase. However, if you need to return an item, we're here to help.

All eligible LumiGrow products carry a 30-day satisfaction guarantee beginning from the day the product is received at the customer's shipping address. Ineligible products include LumiGrow Certified Refurbished lighting fixtures, discontinued products and software.

To process your return, please contact LumiGrow Customer Support at (800) 514-0487, ext. 2. For International support, call +1-415-382-0733. Submit online at <http://www.lumigrow.com/support/>.

Return shipping charges are the sole responsibility of the customer.

Should you wish to make an exchange, our friendly and knowledgeable sales staff is available to help you find the product that best fits your needs.

You can buy LumiGrow with confidence as every product we ship is covered by one the industry's best warranties, unless otherwise noted.

## Returns

All returned merchandise must be in the original packaging with the UPC or bar code intact along with all components and accessories. Product that is returned incomplete, or damaged – if accepted – will require a deduction. This deduction is final. A 25% restocking fee will be applied based on the original sales price.

30-day money-back guarantee does not apply to special orders.

Please have the following information readily available before contacting your LumiGrow reseller or LumiGrow Customer Support: date of purchase, model name and serial number of the product.

## Credits

Credit will be issued after our warehouse receives, inspects, and processes your return; however, if the purchase was made by credit card your credit card company determines when the issued credit will be reflected in your statement.

Happy growing!  
LumiGrow Customer Service  
(800) 514-0487, ext. 2, +1-415-382-0733  
<http://www.lumigrow.com/support>