



Horticulture
Lighting Group®

PRODUCT MANUAL



650R™

FEATURING THE

Diablo™

QUANTUM BOARD®



HLG 650R

IDEAL FOR FULL & FLOWER CYCLES

SPECIFICATIONS

| | |
|------------------------------------------|----------------------------------------------------------|
| LED | 2592 Samsung LM301H LED's & 72 LH351H V2 Deep Red 660 nm |
| PPF | 1770 |
| Input Current | 5.3A (120), 2.7A (220) |
| Efficacy | 2.81 $\mu\text{mol}/\text{joule}$ |
| Voltage Range | 120VAC - 277VAC : 50/60 Hz |
| Power | 60-630 Watts |
| Flowering Footprint | 5' x 5', 7' x 7' for Veg |
| Recommended mounting height above canopy | 30"-36: Flowering, 48" for Veg |
| Thermal Management | Passive-Cooled Design |
| Max Ambient Temperature | 40C (104F) |
| Dimmable | Manual or 0-10V option |
| Dimensions | 26" x 21.5" x 2.75" |
| Weight | 23 lbs |
| Warranty | 3 Years |

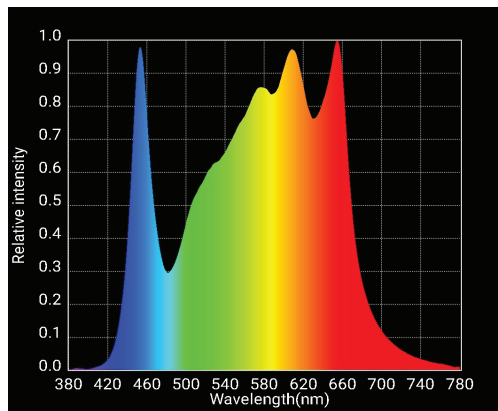
Specifications based on performance at 220V. Specifications subject to change without notice.

For best results it is recommended to maintain temperature of grow room at 78° F - 85° F

*Please note, this is a high power lamp and will need to be dimmed for veg use.

**When using a timer with 220V or higher, a dual pole timer is required.

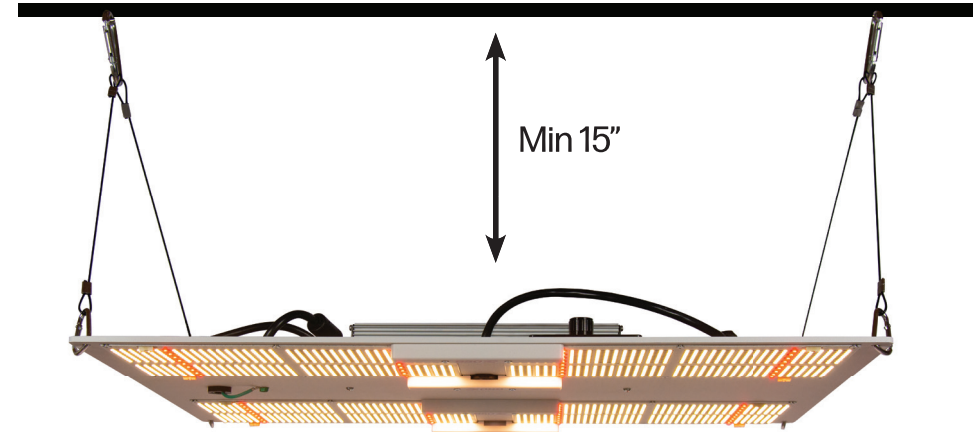
SPECTRUM OPTIONS



MOUNTING INSTRUCTIONS

THE 650R IS DESIGNED FOR CHAIN OR SUSPENSION ONLY!

1. Before mounting, make sure the mounting structure can adequately support a minimum of 23lbs.
2. Install on a non-combustable surface only
3. Maintain a minimum of 15" from ceiling or hanging structure



SUITABLE FOR DAMP LOCATIONS

CONVIENT AUX EMPLACEMENTS HUMIDES

FOR CHAIN OR HOOK SUSPENSION ONLY

SUSPENDRE SEULEMENT À L'AIDE DE CHÂÎNES OU DE CROCHETS

CAUTION - RISK OF FIRE

ATTENTION - RISQUE D'INCENDIE

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED

CE PRODUIT DOIT ÊTRE INSTALLÉ SELON LE CODE D'INSTALLATION PERTINENT, PAR UNE PERSONNE QUI CONNAÎT BIEN LE PRODUIT ET SON FONCTIONNEMENT AINSI QUE LES RISQUES INHÉRENTS

*Please review the safety information in this booklet before use.

To learn more about inventory and cooling requirements please visit

www.HLG.com/blogs/calculators

WARRANTY

Horticulture Lighting Group Products: 3 Year Limited Warranty, 2 Year on select Lighting, and 1 Year Limited Warranty on DIY Kits, or Otherwise Stated.

All Horticulture Lighting Group products are guaranteed with a limited warranty to the original purchaser. Warranty is valid for manufacturing defects or product failures only when products are properly used for their intended applications. If you experience an issue with a product, a technician from our support team may be able to diagnose the issue. Technical support is available by phone and email.

Returns

30-Day Money Back Guarantee!

Horticulture Lighting Group upholds the highest standard of quality for all of our products. We guarantee that the quality of all our merchandise will meet or exceed expectations. Every effort is made to ensure your merchandise is manufactured and shipped in perfect condition. But, if for any reason you are not completely satisfied with your purchase, you may return any item in its original condition within 30 days of receipt and we will gladly provide a refund, replacement, or an exchange.

If you are not satisfied with your purchase, Horticulture Lighting Group will refund the full cost of the returned item minus shipping and 10% restocking fee. If an order shipped is defective, Horticulture Lighting Group will also reimburse you for the shipping charges for the original product.

To qualify for a refund, replacement or exchange, your item must be unused and in the same condition as received and must be in the original packaging.

Our facility representatives will inspect and verify the condition of the item once we receive the returned item. Upon approval, a refund for the full cost of the returned item will be granted. If an order shipped is defective, you will also receive reimbursement for the shipping charges that apply to send the order back to us.

Under certain situations a partial refund may be granted and must be approved by Horticulture Lighting Group ONLY before any return for refund, replacement or exchange process can begin. Exceptions to the full refund include any items not in its original condition, is damaged or missing parts for any reason deemed not due to our error. We do not issue refunds for items that are returned more than 30 days after delivery.

To return or exchange an item, please follow these instructions:
Please contact us either by email or phone to receive the return instructions.

- If contacting by email: Please email warranty@hlg.com your order number, date of purchase and store where purchased and your contact information. Please include an explanation for the request for a refund or an exchange. We will then contact you by email or phone with shipping instructions.
- If contacting by phone: Please have your information ready and call us at (877) 445-4533 x4 to begin the process.

A package without proper return authorization will not be accepted for refund.

Exchanging Items

If you prefer to exchange your item for another Horticulture Lighting Group product, please contact us to discuss your needs. The item must be in its original condition and the exchange request made within 30 days of receipt of the item. After speaking with a Horticulture Lighting Group representative, you can place a new order on the website and send back the original order, or the representative may place the order for you directly.

After we receive your shipment a qualified technician will verify that the defect was not caused by negligence, abuse, unauthorized repair or disassembly. After approval, will replace the product with the same product. In the case the exact product is no longer available, a product of equal value may

be substituted.

Refunds

The item MUST be postmarked and shipped to Horticulture Lighting Group WITHIN THIRTY(30) DAYS from the date of receipt of the order. Each item must be returned in the same condition as it was sent, unworn and undamaged. Items that have been worn and damaged due to customer negligence cannot be returned.

Any order refunded as a result of a cancellation, will be subject to a 10% restocking fee.

Once your return is received and inspected, we will send you an email to notify you that we have received your returned item. We will also notify you of the approval or rejection of your refund.

If you are approved, your refund will be processed and a credit will automatically be applied to your credit card or original method of payment, within 7 business days.

HOW LONG DOES IT TAKE TO RECEIVE A CREDIT FOR A RETURNED ITEM?

After we receive the returned item and it is inspected, we will send you an email to notify you that we have received your returned item. We will also notify you of the approval or rejection of your refund. It takes between 1 and 5 days to complete the return process. A refund or customer credit (for exchanges) will be issued within 1 to 5 business days. All refunds will be issued in the original form of payment. Please allow one monthly billing cycle for the credit to appear on your credit card statement.

Please contact us either by email or phone if you feel there is a problem or delay with the transaction.

Shipping

Returns may be mailed or shipped to:
Horticulture Lighting Group, 3505 Maynardville Hwy., Maynardville, TN 37807

You will be responsible for paying for your own shipping costs for returning any item not deemed to be covered under the return warranty. Shipping costs are non-refundable for wrong item purchase or changing your order. If you receive a refund, the cost of return shipping will be included in your refund. Upon approval, we will provide a shipping label via email or a label will be included in the replacement item shipment box. Depending on your shipping address, the time it may take for your replacement or exchanged product to reach you, may vary.

If you have any questions about our products, warranty, exchange, adjustment, or return policies, please contact a Customer Service Representative at (877) 445-4533 x4 or email warranty@hlg.com.

SAFETY INFORMATION

Please read this important safety information before you use the device. It contains general safety information. Follow the warning and caution information to prevent injury to yourself or others and to prevent damage to your device.



Eye Exposure:

1. Injury may occur if eyes are subjected to prolonged direct exposure to bright light. Wear approved eye protection for protection from UV rays, and appropriate certification compliances for LED lighting.
2. Do not use lamps in applications where humans and/or animals will be subjected to direct long-term uncomfortable visual exposure to light emissions as this could result in eye injury. If lamp appears damaged, remove power and then repair or request replacement the product.



Burn Warning:

1. Operating lamps may become hot and may involve some risk or causing fire or serious bodily injury or other damages. Use of temperature resistant gloves is recommended.
*Always allow sufficient time for product to cool prior to touching.



Electrical Hazard:

1. Electrical shock hazard is always associated with the use of electrical appliances and working with electricity. Do not use if cords or plugs are damaged or with loose electrical sockets. Unsecured connections can cause electrical shock or fire. Do not touch the power cord with wet hands or disconnect from power source by pulling on the cord, as doing so may result in electrical shock. Do not bend or damage the power cord or unit wiring, as doing so may cause electrical shock or fire. User holds sole liability and responsibility for proper use, handling and installation of this product.
2. When performing any troubleshooting please disconnect the AC power and wait 30 seconds for power supply to de-energize. It is also important to follow this step before any inspection, adjustment or maintenance to lamps.



Environment:

1. All disposal options should be evaluated with respect to federal, state, and local requirements. Before disposing of waste lamps and components, check with federal, state, and/or local officials for current guidelines and regulations.

Caution

Failure to comply with safety cautions and regulations can cause injury or property damage.

- Care and use your device properly. Do not use the device for anything other than its intended use.
- Damages or poor performance caused by failure to follow warnings and instructions can void your manufacturer's warranty.

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Disclaimer:

Buyer accepts responsibility for any and all grow lamps and components and any product operation that may lead to personal injury, economic loss, social distress, death or other losses including costs and damages. Horticulture Lighting Group is not responsible for misuse of any of their products. The purchaser is solely responsible for compliance with all applicable laws and regulations concerning the use of Horticulture Lighting Group products.

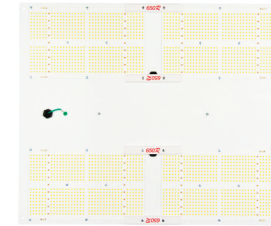
The information contained in this manual herein is presented in good faith and believed to be correct. No representations are made as to the completeness or accuracy thereof. Neither Preparer nor Company assumes any liability or responsibility for its use.

SAFETY HLG: 02/20/2020

Achieve higher intensity and increase even coverage in a grow tent, reflective area, or cross-over by using multiple HLG 650R lamps.

PACKAGE INCLUDES

- HLG 650R Lamp
- Hanging hardware
- Rope Ratchets



HLG 650R Lamp



Rope Ratchets



Hanging hardware



Horticulture
Lighting Group®

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Westerville, OH 43082

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