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Horticulture Lighting Group HLG Rspec 700 FR

Horticulture Lighting Group HLG Rspec 700 FR LED Grow Light Instruction Manual

Model: HLG Rspec 700 FR

1. Introduction and Overview

This manual provides detailed instructions for the installation, operation, and maintenance of your Horticulture Lighting Group (HLG) Rspec 700 FR LED Quantum Board Grow Light. This high-performance lighting system is designed for home and commercial growers, offering a full spectrum white light with enhanced 730nm Far Red and 660nm Deep Red wavelengths, optimized for the flowering cycle of indoor plants.



Figure 1: HLG Rspec 700 FR LED Grow Light

2. Safety Information

Please read and understand all safety warnings and instructions before installing or operating this product. Failure to do so may result in injury or property damage.

- **Electrical Safety:** Ensure the power supply matches the specified voltage (120V). Always disconnect power before installation, cleaning, or maintenance. Do not operate with damaged cords or plugs.
- **Heat:** The LED fixture can become hot during operation. Avoid direct contact with the light boards when the unit is powered on. Ensure adequate ventilation around the fixture.
- **Eye Protection:** Do not look directly at the operating LEDs. Prolonged exposure to intense light can cause eye strain or damage. Protective eyewear is recommended.
- **Water Exposure:** This fixture is designed for indoor use. Do not expose to water or high humidity environments.
- **Mounting:** Securely mount the fixture using appropriate hardware. Ensure the mounting structure can support the weight of the light (approximately 27.5 pounds).

3. Package Contents

Verify that all components are present and undamaged upon unpacking.

- HLG Rspec 700 FR LED Grow Light Fixture
- Power Cord
- Hanging Hardware (e.g., adjustable rope hangers or carabiners)
- Instruction Manual

4. Product Features

The HLG Rspec 700 FR LED Grow Light incorporates advanced features for efficient plant cultivation:

- **LED Grow Lighting:** Powered by 4 QB272 quantum boards with 730nm Far Red and 660nm Deep Red spectrum, ideal for flowering.
- **Improved Photon Delivery:** Integrated reflectors enhance photon delivery, leading to better quality yields, even at lower canopy levels. Produces over 1585 PPF output with a photon efficacy of 2.5 µmol/j.
- **Far Red Light Benefits:** Increases plant biomass, promotes lateral root growth, and improves the efficiency of the overall spectrum.
- **Dimmable Output:** A dimmer knob allows output adjustment from 0 to 633 watts.
- **Designed & Assembled in USA:** Developed by Horticulture Lighting Group, a leader in high-density modular light engines for horticulture.



Figure 2: HLG Rspec 700 FR Spectral Distribution

5. Setup Instructions

Follow these steps for proper installation of your HLG Rspec 700 FR grow light:

1. **Unpack:** Carefully remove all components from the packaging. Inspect for any shipping damage.
2. **Mounting Location:** Select a sturdy location capable of supporting the fixture's weight. Ensure adequate clearance for heat dissipation and air circulation.
3. **Attach Hanging Hardware:** Securely attach the provided hanging hardware to the fixture and then to your chosen mounting point.
4. **Recommended Height:** For optimal flowering, mount the light approximately 24 inches above the plant canopy.
5. **Connect Power:** Once the fixture is securely mounted, connect the power cord to the light and then to a grounded 120V electrical outlet.

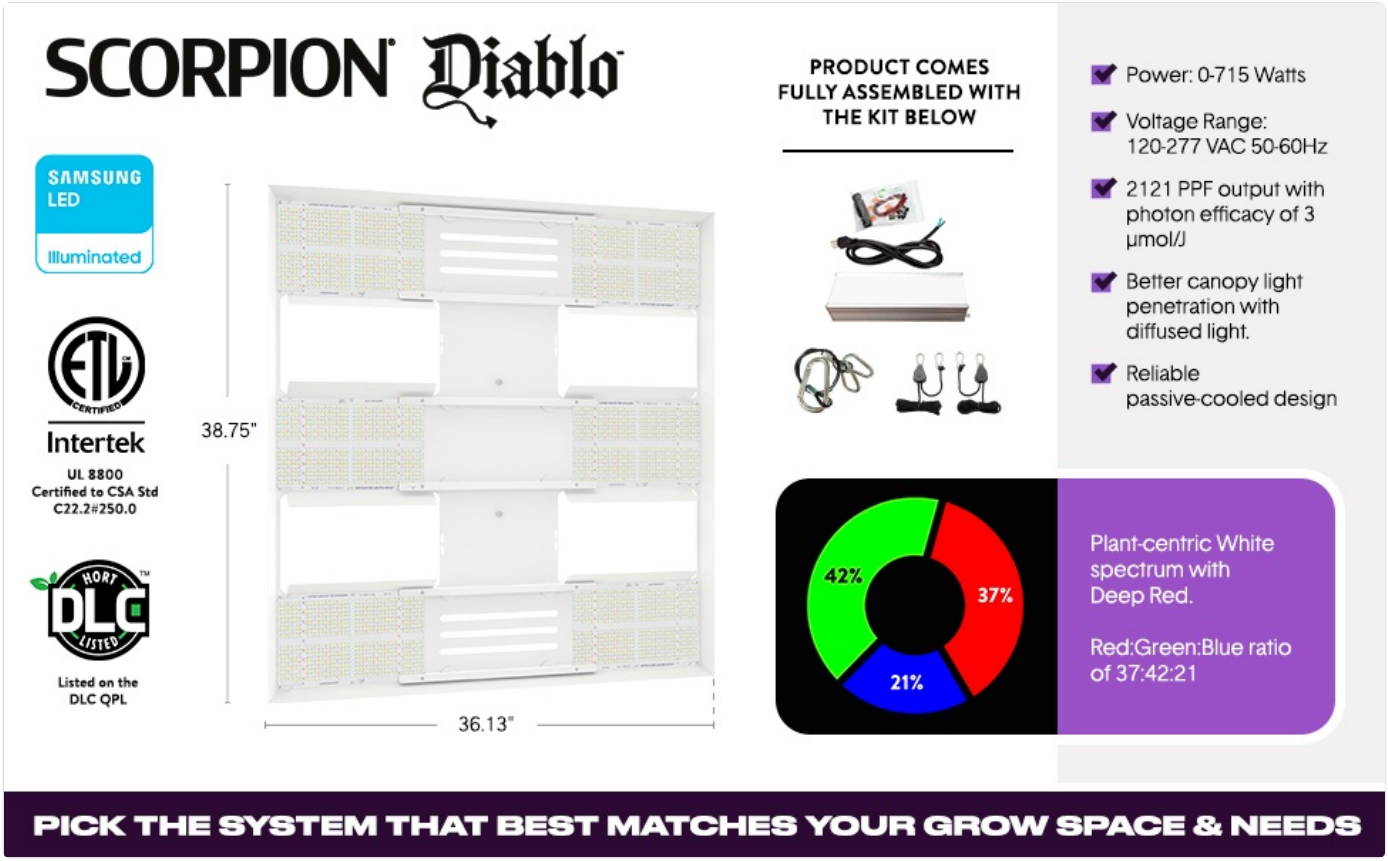


Figure 3: Product Dimensions and Included Components (Illustrative)

6. Operating Instructions

The HLG Rspec 700 FR is designed for the flowering stage of plant growth.

- **Power On/Off:** Plug the unit into a 120V outlet to power on. Unplug to power off.
- **Dimming:** Use the integrated dimmer knob to adjust the light output from 0 to 633 watts. Start with lower intensity and gradually increase as plants mature or as needed.
- **Coverage Area:** This light is ideal for a 5x5 ft flowering footprint.
- **Light Cycle:** Adhere to appropriate light/dark cycles for the flowering stage of your specific plants.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your grow light.

- **Cleaning:** Periodically clean the LED boards and reflectors with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged and cool before cleaning. Do not use liquid cleaners directly on the LEDs.
- **Inspection:** Regularly inspect the power cord for any signs of damage. Check hanging hardware for security.
- **Ventilation:** Ensure that the grow area has adequate airflow to prevent excessive heat buildup around the fixture.

8. Troubleshooting

If you encounter issues with your HLG Rspec 700 FR, refer to the following common problems and solutions:

- **Light Not Turning On:**
  - Check if the power cord is securely plugged into both the fixture and the outlet.

- Verify the outlet is receiving power (test with another device).
- Ensure the dimmer knob is not set to the minimum (off) position.

- **Light Output is Low:**
  - Adjust the dimmer knob to increase intensity.
  - Ensure the fixture is receiving the correct voltage.
- **Overheating:**
  - Check for obstructions around the fixture that might impede airflow.
  - Ensure the ambient temperature of the grow space is within acceptable limits.

If problems persist, contact Horticulture Lighting Group customer support.

9. Specifications

Detailed technical specifications for the HLG Rspec 700 FR LED Grow Light:

Feature	Specification
Model	HLG Rspec 700 FR
Power Consumption	0 - 633 Watts (Dimmable)
Input Voltage	120V
Photon Efficacy	2.5 µmol/j
PPF Output	Over 1585 PPF
Spectrum	Full Spectrum White, 730nm Far Red, 660nm Deep Red
Ideal Flowering Footprint	5x5 ft
Recommended Mounted Height	24 inches above canopy
Dimensions (L x W x H)	37.5" x 27.125" x 3.75" (Product) / 25"L x 5"W x 30"H (Package)
Item Weight	27.5 pounds
Light Source Type	LED (4 QB272 Quantum Boards)
Material	Metal
Finish Type	White
UPC	850019573237



	HLG Scorpion Diablo Quantum Board LED Grow Light	HLG 100 Rspec Quantum Board LED Grow Light	HLG 350R Quantum Board LED Grow Light	HLG Blackbird 2022 Quantum Board LED Grow Light	HLG 600 Rspec Quantum Board LED Grow Light	HLG 300L Rspec Quantum Board LED Grow Light
Footprint	Flowering: 5' x 5' at 18" | Veg: 6' x 6' at 24"	Flowering: 2' x 2' | Veg: 3' x 3'	Flowering: 3' x 5' at 15" | Veg: 5' x 5' at 24"	Flowering: 4' x 4' at 20"-24" | Veg: 6' x 6' at 30"	Flowering: 6' x 6' at 40" | Veg: 5' x 5' at 28"	Flowering: 2.5' x 2.5' or 3' x 3' | Veg: 4' x 4'
LED	Samsung White Light Full Spectrum and Deep Red	192 Samsung LM301B White Light Full Spectrum	Samsung LM301H White Light Full Spectrum and 660nm Red	Full Spectrum White & Deep Red	Samsung LM301H White Light Full Spectrum and 660nm Red	Samsung LM301H White Light Full Spectrum and 660nm Red
Lumens		15,000+	64,070			
Power	60 - 650 watts	95 watts	60 - 350 watts	100 - 600 watts	100 - 600 watts	90 - 270 watts
Voltage Range	120-277 VAC 50-60Hz	90-264 VAC	100-277 VAC 50-60Hz	100-277 VAC 50-60Hz	100-277 VAC 50-60Hz	90-277 VAC
System PPF Efficacy	3.2 µmol/joule	2.45 µmol/joule	3.11 µmol/joule	2.57 µmol/joule	2.60 µmol/joule	2.6 µmol/joule
Dimmable	✓			✓	✓	✓
Total Output	2130 PPF	235 PPF	1000+ PPF	1465 PPF	1529 PPF	700 PPF

Figure 4: HLG Grow Light Model Comparison (Illustrative)

10. Warranty and Support

The HLG Rspec 700 FR LED Grow Light comes with a**3-year warranty** from the date of purchase, covering defects in materials and workmanship.

For warranty claims, technical support, or further inquiries, please contact Horticulture Lighting Group customer service. Refer to the official Horticulture Lighting Group website for the most current contact information and support resources.

You can visit the official Horticulture Lighting Group Store for additional product information and resources.

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