

AGLEX M320

AGLEX M320 LED Grow Light User Manual

Comprehensive Instructions for Optimal Plant Cultivation

1. INTRODUCTION

Thank you for choosing the AGLEX M320 LED Grow Light. This manual provides essential information for the safe and effective use of your new grow light. The AGLEX M320 is designed to provide a full spectrum of light for all stages of plant growth, from germination to flowering, in indoor and hydroponic environments. Please read this manual thoroughly before installation and operation.

2. SAFETY INFORMATION

- Always disconnect power before installation, cleaning, or maintenance.
- Do not operate the light in wet or damp conditions. This product is IP65 rated for water resistance, but direct water exposure should be avoided.
- Ensure proper ventilation around the grow light to prevent overheating.
- Do not stare directly into the LED lights when they are on, as this may cause eye strain or damage.
- Keep the product out of reach of children.
- Use only the provided power cord and accessories.
- Do not modify the product in any way. Unauthorized modifications may void the warranty and pose safety risks.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- AGLEX M320 LED Grow Light (x1)
- 2M RJ12 Cable (x1)

- Screws (x4)
- Hanging Kits (x1 set)
- Retractable Rope (x1)



Image: Contents of the AGLEX M320 LED Grow Light package, showing the folded light fixture and accessories.

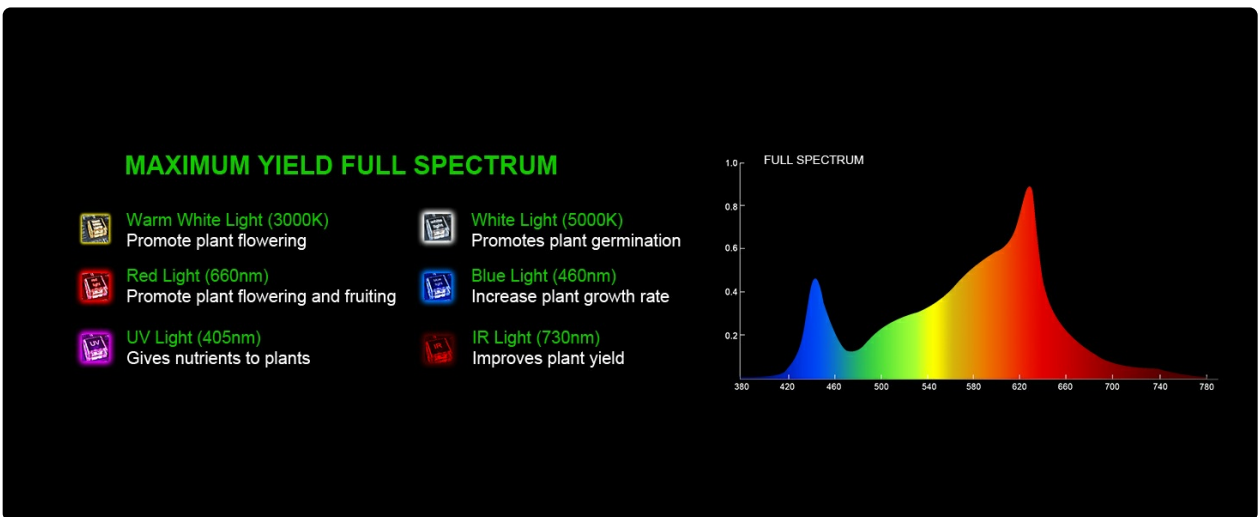


Image: Diagram illustrating the package contents and the dimensions of the AGLEX M320 LED Grow Light.

4. SETUP INSTRUCTIONS

4.1 Unfolding the Light

1. Carefully remove the AGLEX M320 LED Grow Light from its packaging.
2. The light is designed with a 180° folding function for compact storage and easy transport. Gently unfold the light bars until they are fully extended and locked into position.

NEW UPGRADE & 180° FOLDABLE

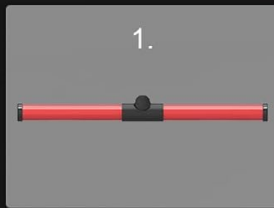


Image: Illustration of the AGLEX M320 LED Grow Light's 180-degree folding capability, showing the light in folded and unfolded states.

4.2 Hanging the Light

1. Attach the provided hanging kits to the designated points on the grow light fixture.
2. Use the retractable rope to suspend the light from a sturdy support structure (e.g., grow tent frame, ceiling hooks).
3. Adjust the height of the light according to the recommended distances for your plants' growth stage (refer to Section 5.3).

COMMERCIAL GROW LIGHTING

Detachable Driver

1. UL, CE, ROHS Safety Certification
2. Save Electricity Cost
3. Excellent Heat Dissipation



Image: The AGLEX M320 LED Grow Light suspended above plants in a commercial growing environment, showcasing the detachable driver.

4.3 Power Connection

1. Ensure the dimmer knob on the light is set to 'OFF' or the lowest setting before connecting power.
2. Connect the power cord to the light fixture's power input.
3. Plug the power cord into a grounded electrical outlet. The light supports a wide input voltage of 100-277V.

4.4 Daisy Chain Connection (Optional)

The AGLEX M320 features a daisy-chain function, allowing you to connect and control multiple lights simultaneously using the RJ12 port. Up to 100 lights can be connected.

1. Connect one end of the RJ12 cable to the 'OUT' port of the first grow light.
2. Connect the other end of the RJ12 cable to the 'IN' port of the next grow light in the chain.
3. Repeat this process for all lights you wish to connect.
4. To control all connected lights from the first unit, ensure the dimmer knobs on all subsequent lights are set to 'A' (Auto/Daisy Chain mode). The first light's dimmer will then control the entire chain.

DAISY CHAIN

Up to 100 lights can be connected
Lights in "Daisy Chain" mode will be
synchronized and controlled

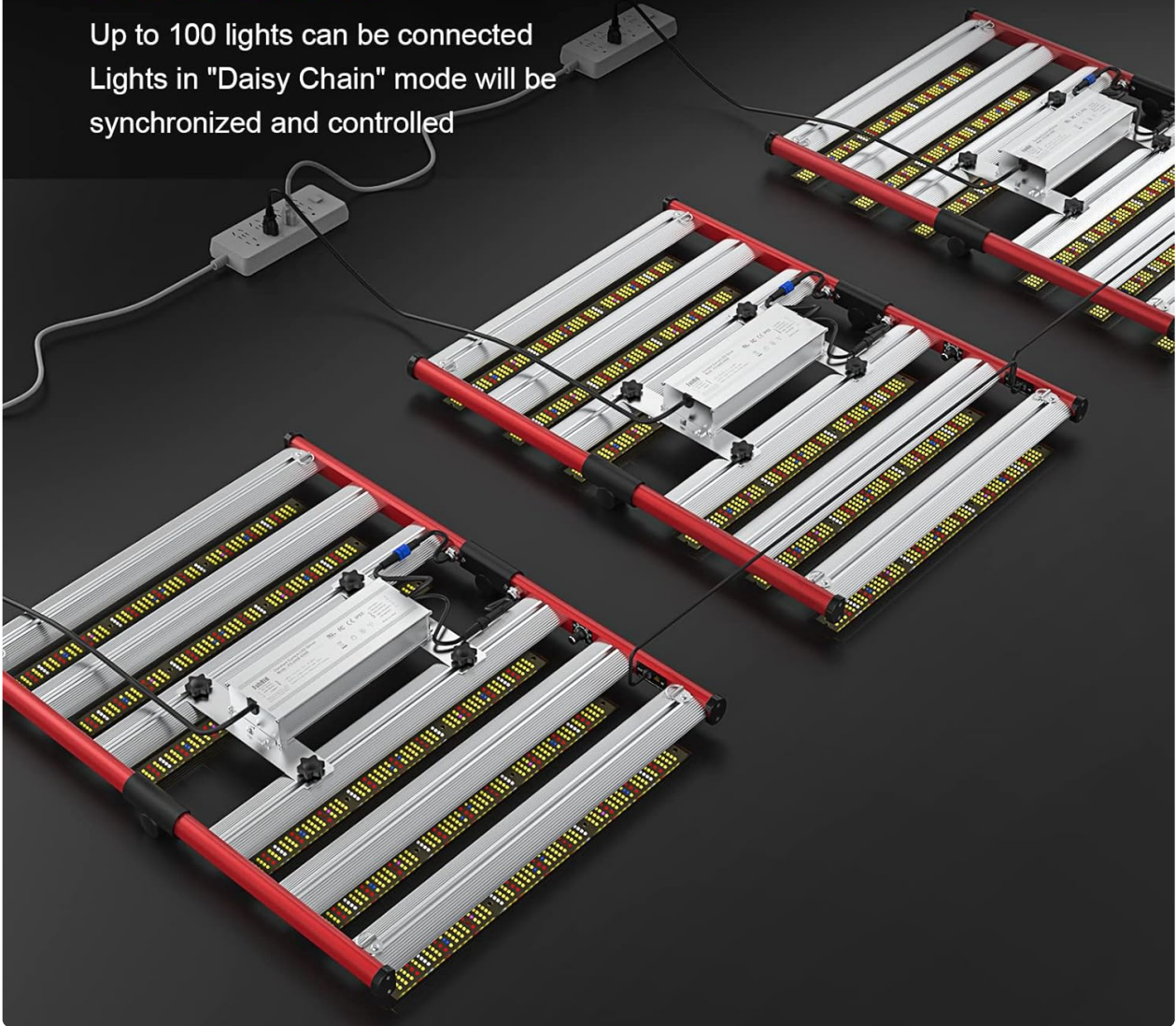


Image: Multiple AGLEX M320 LED Grow Lights connected in a daisy chain configuration, illustrating the RJ12 cable connections.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Once connected to power, turn the dimmer knob clockwise to power on the light and increase brightness. Turn it counter-clockwise to decrease brightness and power off.

5.2 Dimming Function

The AGLEX M320 features a 4-level dimming knob, allowing adjustment from 0% to 100% brightness. This enables you to customize light intensity based on your plants' specific needs at different growth stages.

5.3 Full Spectrum Design

The light incorporates a full spectrum design, closely mimicking natural sunlight, which is beneficial for all plant growth stages. The spectrum includes:

- **Warm White (3000K):** Promotes flowering.

- **Cool White (5000K):** Promotes plant germination.
- **Blue (460nm):** Increases plant growth rate.
- **Red (660nm):** Promotes flowering and fruiting.
- **UV (405nm):** Provides beneficial nutrients to plants.
- **IR (730nm):** Improves plant yield.

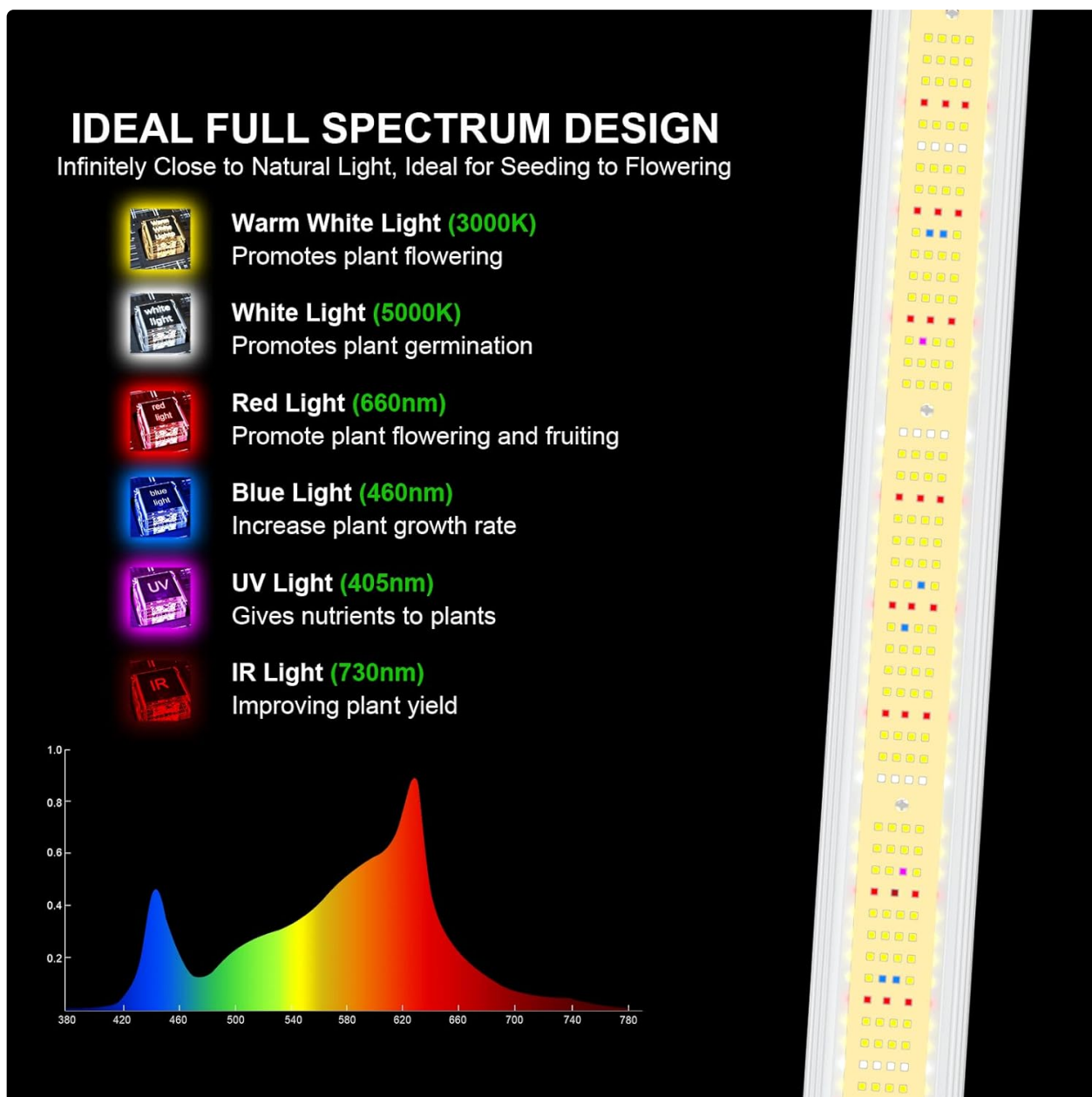


Image: Detailed breakdown of the AGLEX M320 LED Grow Light's full spectrum, including specific wavelengths and their benefits for plant growth, alongside a spectral distribution graph.

5.4 Recommended Usage for Growth Stages

The following table provides general guidelines for light height, dimming, and light cycle. These are reference values and may need adjustment based on specific plant types and environmental conditions.



Image: Table showing suggested light height, dimming percentage, and light cycle (ON/OFF hours) for different plant growth stages: Germination, Seedling, Vegetative, and Flowering.

5.5 PPF Map

The AGLEX M320 provides an average PPF of 1189 $\mu\text{mol}/\text{s}$ at 3x4ft core coverage. Refer to the PPF map for detailed light intensity distribution at various heights.

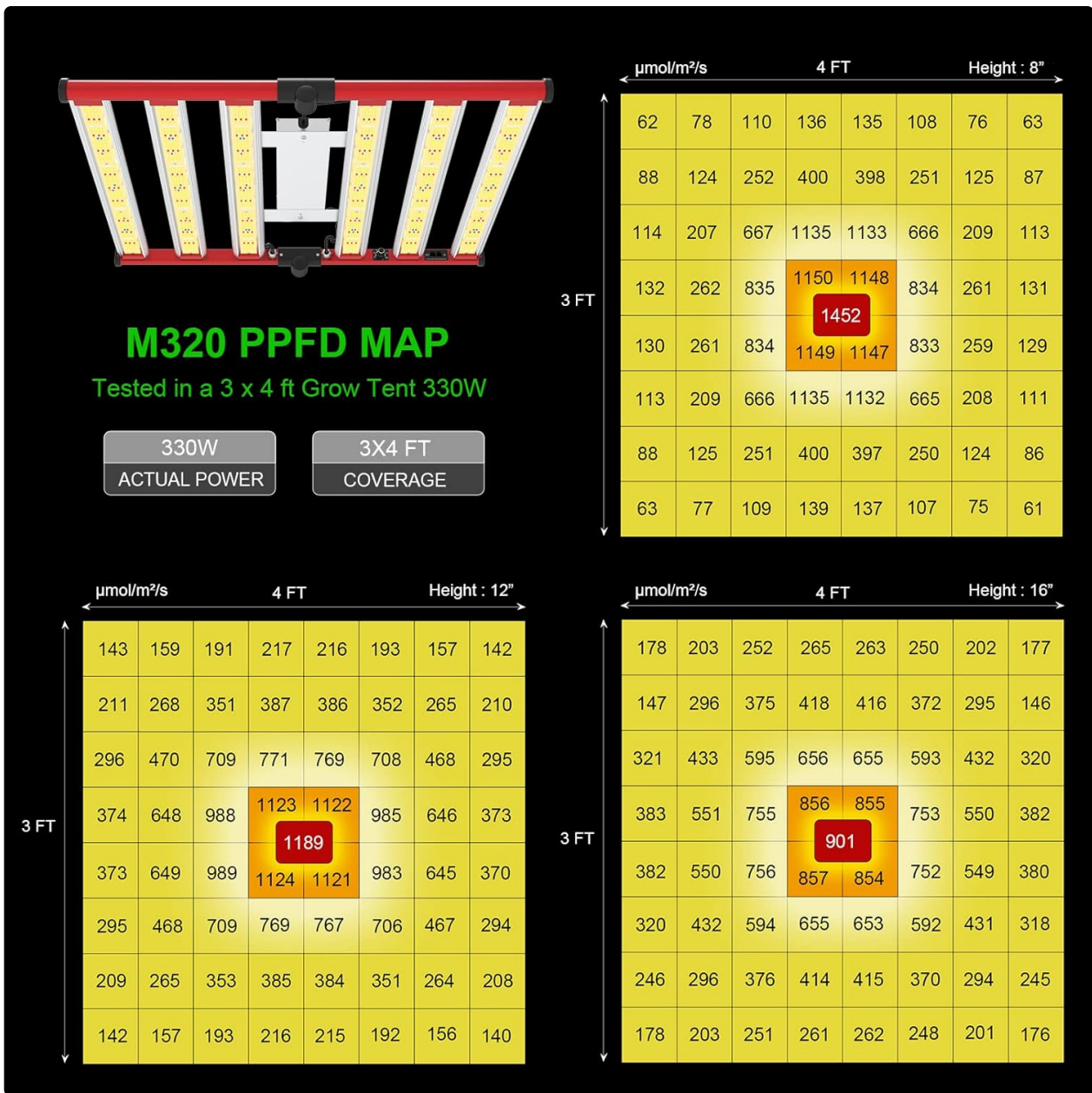


Image: PPFD (Photosynthetic Photon Flux Density) map for the AGLEX M320 LED Grow Light, showing light intensity distribution over a 3x4 ft area at different hanging heights (8, 12, and 16 inches).

6. MAINTENANCE

6.1 Cleaning

The light bars are covered with high-grade glue, making them easy to clean. To maintain optimal light output and efficiency, periodically clean the LED light bars. Ensure the light is disconnected from power before cleaning. Use a soft, dry cloth to gently wipe away any dust or debris. Avoid using harsh chemicals or abrasive materials.

6.2 Heat Dissipation

The light bar style and aluminum material contribute to efficient heat dissipation, ensuring a longer lifespan and stable performance. Ensure adequate airflow around the fixture. Do not block the ventilation openings on the light or driver.

7. TROUBLESHOOTING

- **Light not turning on:**

- Check if the power cord is securely connected to both the light and the electrical outlet.
- Verify that the electrical outlet is functioning correctly.
- Ensure the dimmer knob is turned clockwise past the 'OFF' position.

- **Dimming function not working:**

- If using daisy chain, ensure the dimmer on the individual light is not set to 'A' (Auto) if you intend to control it independently. If controlling via the first light in a chain, ensure all subsequent lights are set to 'A'.
- Check for any visible damage to the dimmer knob or wiring.

- **Excessive heat:**

- Ensure there is sufficient air circulation around the light fixture.
- Verify that the light is not too close to the plants or other surfaces, which could impede airflow.
- Confirm ambient room temperature is within acceptable limits for grow lights.

If you encounter issues not covered here, please contact AGLEX customer support for assistance.

8. SPECIFICATIONS

Feature	Specification
Model Number	M320
Actual Power Consumption	330W \pm 5%
LED Quantity	1170 PCS
Core Coverage Area	3x4 FT
Energy Efficiency	2.8 μ mol/J
Average PPFd (3x4ft core coverage)	1189 μ mol/ /s
Average Yield	More than 2.5g per wattage
Input Voltage	100-277V (AC)
Amperage	3 Amps
Brightness	46201 Lumen
Light Source Type	LED (Full Spectrum: Warm White 3000K, Cool White 5000K, Blue 460nm, Red 660nm, UV 405nm, IR 730nm)
Dimming	4-level dimming knob (0-100%)
Daisy Chain Capability	Up to 100 lights via RJ12 port
Folding Function	180° Foldable

Feature	Specification
Material	Aluminum, Stainless Steel
Water Resistance	IP65
Product Dimensions (L x W x H)	16.73" x 4.92" x 23.03"
Item Weight	11 pounds (5 Kilograms)
Lifespan	> 50,000 hours

9. WARRANTY AND SUPPORT

AGLEX is committed to providing quality products and customer satisfaction. For any questions, concerns, or technical support regarding your AGLEX M320 LED Grow Light, please contact AGLEX customer service. We are dedicated to assisting you with any inquiries you may have.

Please retain your proof of purchase for warranty claims.