

AC Infinity AC-IF3K

AC Infinity IONFRAME EVO3 LED Grow Light User Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your AC Infinity IONFRAME EVO3 LED Grow Light. Designed for optimal plant growth, this full-spectrum light utilizes advanced Samsung LM301H EVO LEDs and integrates with the UIS platform for smart control.

Product Overview

The AC Infinity IONFRAME EVO3 is a 280W bar-style LED grow light, engineered for indoor gardening in grow tents, rooms, and greenhouses. It features 840 Samsung LM301H EVO diodes, providing a high efficiency of 3.14 $\mu\text{mol/J PPE}$. The fixture is designed for uniform light distribution, deep canopy penetration, and reduced hotspots, ensuring comprehensive coverage for your plants.

Key Features

- **High-Efficiency LEDs:** Equipped with Samsung LM301H EVO diodes, rated at 3.14 $\mu\text{mol/J PPE}$, offering superior light intensity and efficiency.
- **Advanced Control:** Features schedule controls, sunrise/sunset dimming, and 10 brightness levels for precise environmental management.
- **Smart Integration:** UIS platform-compatible for WiFi app control, allowing remote monitoring and adjustments.
- **Optimized Design:** Bar-style fixture with algorithmically spaced diodes ensures even coverage, deep canopy penetration, and hotspot reduction.
- **Thermal Management:** Includes a removable passive cooling LED driver to aid in heat dissipation.
- **Expandable System:** Supports daisy-chaining with up to 80 grow lights for larger setups.
- **Coverage Area:** Provides 3 x 5 ft. vegetative coverage and 2 x 4 ft. flowering coverage.
- **Certification:** ETL Certified (5021417) for safety and performance.

SETUP

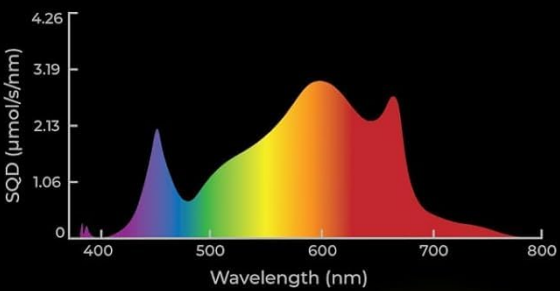
Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the grow light and accessories for any signs of damage. If any parts are missing or damaged, contact AC Infinity customer support immediately.

BEST IN CLASS LIGHTING

Features full spectrum **Samsung LM301H EVO** LEDs that deliver greater light intensity and efficiency when compared to all LM301H/B and 3030 diodes.

SPECTRUM TEST REPORT



3000K	Promotes Plant Germination	
5000K	Boosts Plant Flowering	
395nm	Stimulate Metabolites	
660nm	Promotes Plant Flowering	
730nm	Improves Yields	

*Spectrum shown: IONFRAME EVO4

PERFORMANCE COMPARISON

MODEL	EFFICACY (PPF)
LM301H EVO	3.14 $\mu\text{mol/J}$
LM301H	3.10 $\mu\text{mol/J}$
LM301B	2.80 $\mu\text{mol/J}$
LM301D	2.75 $\mu\text{mol/J}$
S 3030	3.08 $\mu\text{mol/J}$
E 2835	2.90 $\mu\text{mol/J}$
3030	2.95 $\mu\text{mol/J}$
2835	2.86 $\mu\text{mol/J}$
3030 BXEM	2.90 $\mu\text{mol/J}$



Figure 1: AC Infinity IONFRAME EVO3 LED Grow Light and included components.

Mounting the Grow Light

The IONFRAME EVO3 is designed for easy installation within grow tents or rooms. Use the provided hanging hardware to securely suspend the light above your plants. Ensure the mounting surface can support the weight of the fixture. The light can be adjusted in height to achieve optimal distance from the plant canopy.

GREATER QUALITY SPECTRUM

LM301H EVO LEDs improve plant growth by emitting a higher blue spectrum for greater light quality with higher efficiency for more light output per diode.

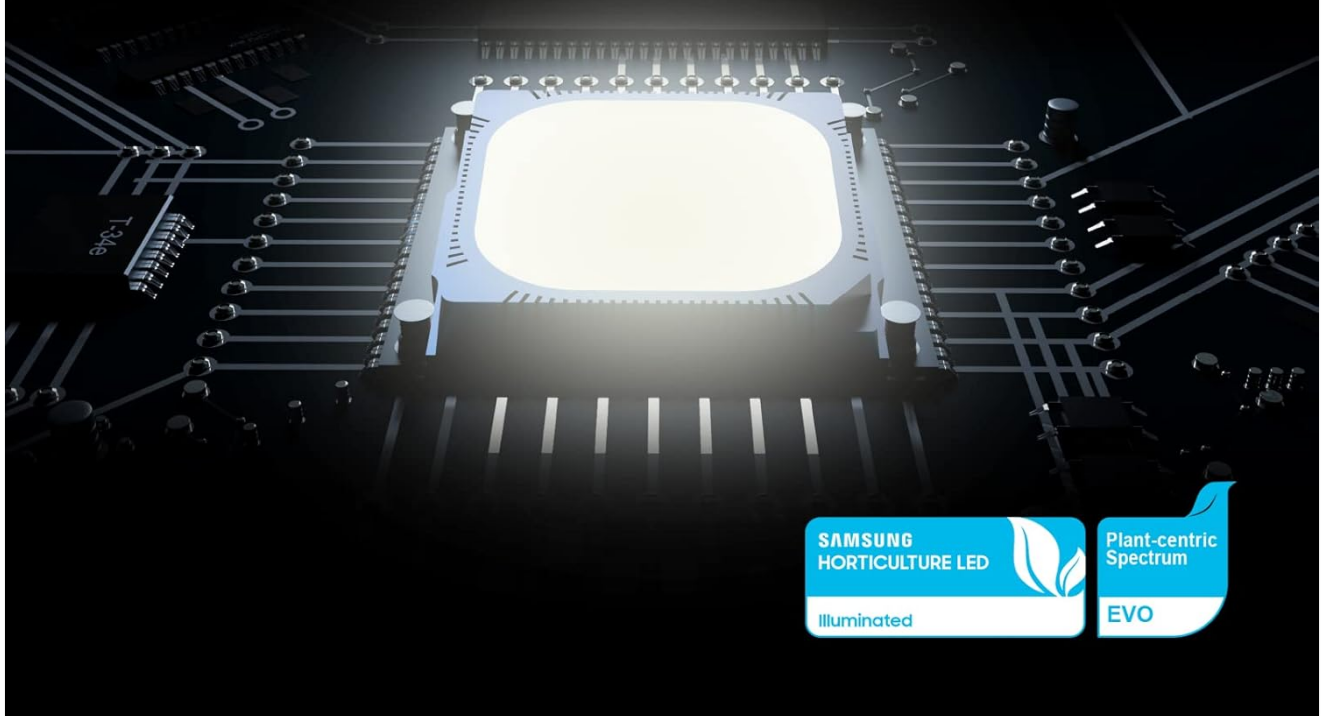


Figure 2: IONFRAME EVO3 mounted inside a grow tent.

Connecting the Controller

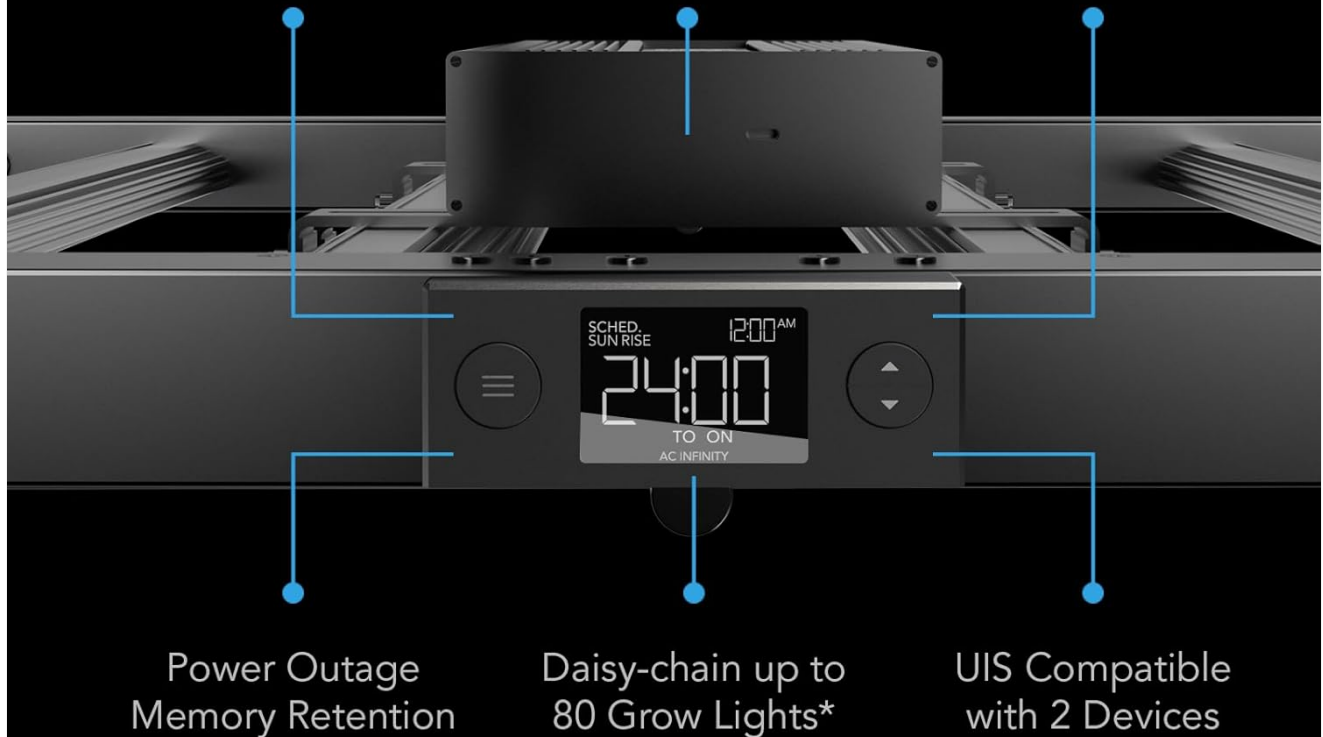
Connect the included schedule controller to the grow light. The controller allows for manual adjustments and programming. For advanced features and remote control, ensure your controller is UIS platform-compatible and connect it to your WiFi network via the AC Infinity app.

SCHEDULE CONTROLLER

Light Schedules
& Sunrise/Sunset
Dimming

Remotely
Mountable
Driver

Precise PWM
Dimming From
0% to 100%



*Requires 2-in-1 splitter. Not included.

Figure 3: Schedule controller connected to the grow light.

OPERATING INSTRUCTIONS

Powering On/Off

Plug the power cord into a suitable electrical outlet. The light can be powered on or off using the switch on the controller or through the AC Infinity app if connected to the UIS platform.

Adjusting Brightness

The IONFRAME EVO3 offers 10 PWM-controlled dimming levels, from 0% to 100%. Use the up/down buttons on the controller to adjust the light intensity. This allows you to customize the light output to suit different growth stages of your plants.

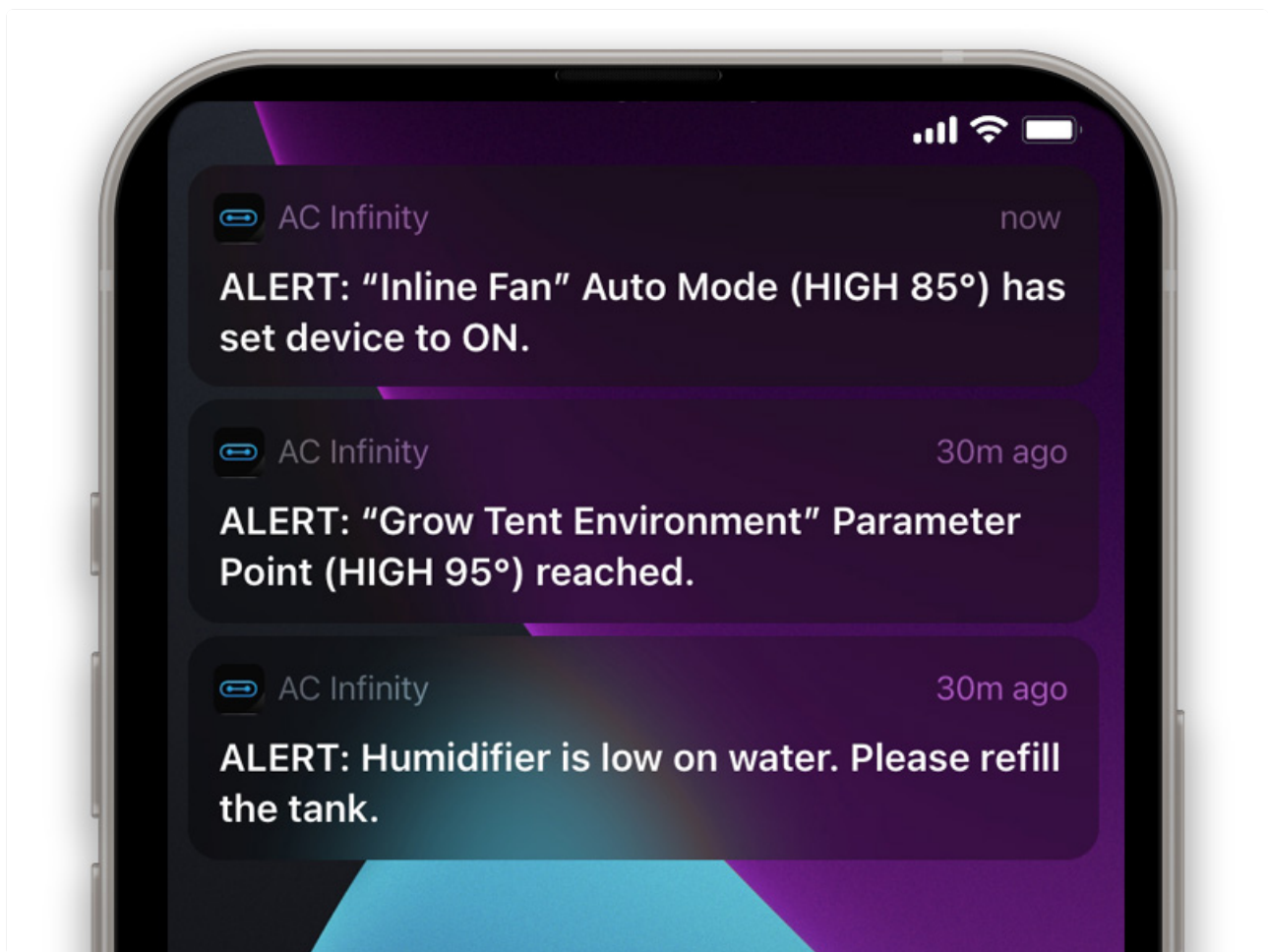


Figure 4: Brightness control interface on the controller.

Setting Schedules

Utilize the schedule mode on the controller or through the app to set daily on/off times. The light also supports sunrise and sunset dimming functions, which gradually brighten and dim the light to simulate natural outdoor conditions, reducing stress on plants.



Figure 5: Daily scheduling cycle.



Figure 6: Sunrise and sunset dimming functionality.

UIS Platform and App Control

For comprehensive control and monitoring, download the AC Infinity app and connect your IONFRAME EVO3 to the UIS platform. This allows you to manage schedules, adjust brightness, monitor environmental data, and receive alerts directly on your smartphone.



Figure 7: AC Infinity app for smart control.



Figure 8: App alerts for environmental conditions.

Daisy-Chaining Multiple Lights

The IONFRAME EVO3 supports daisy-chaining with up to 80 grow lights using UIS splitters (not included). This allows multiple lights to operate under the same programming, simplifying control for larger grow spaces.



Figure 9: Daisy-chaining setup for multiple grow lights.

MAINTENANCE

Cleaning

To maintain optimal performance, regularly clean the LED bars and the fixture. Ensure the light is unplugged before cleaning. Use a soft, dry cloth to gently wipe away dust and debris. Avoid using harsh chemicals or abrasive materials that could damage the LEDs or the fixture's finish.

Storage

If storing the grow light for an extended period, ensure it is clean, dry, and stored in a cool, dry place away from direct sunlight and extreme temperatures. Keep it in its original packaging if possible to protect it from dust and physical damage.

TROUBLESHOOTING

Common Issues

- **Light Not Turning On:** Check the power connection and ensure the outlet is functional. Verify that the controller is properly connected and powered.
- **Uneven Light Distribution:** Ensure the light is mounted level and at the recommended height above the plant canopy.
- **App Connectivity Issues:** Confirm your WiFi network is active and the controller is within range. Restart the app and the controller if necessary.
- **Overheating:** Ensure adequate ventilation in your grow space. If the LED driver is inside the tent, consider moving it outside to reduce ambient temperature.

For further assistance, refer to the AC Infinity website or contact customer support.

SPECIFICATIONS

SPECIFICATIONS



UIS™

MODEL | IONFRAME EVO3
COVERAGE | 2 x 4 ft
POWER USAGE | 280 W
CONTROLLER | 77

DIODES | Samsung LM301H EVO
DIODE EFFICIENCY | 3.14 μ mol/J
LED COUNT | 840 Diodes
BRIGHTNESS | 10 + Power Switch

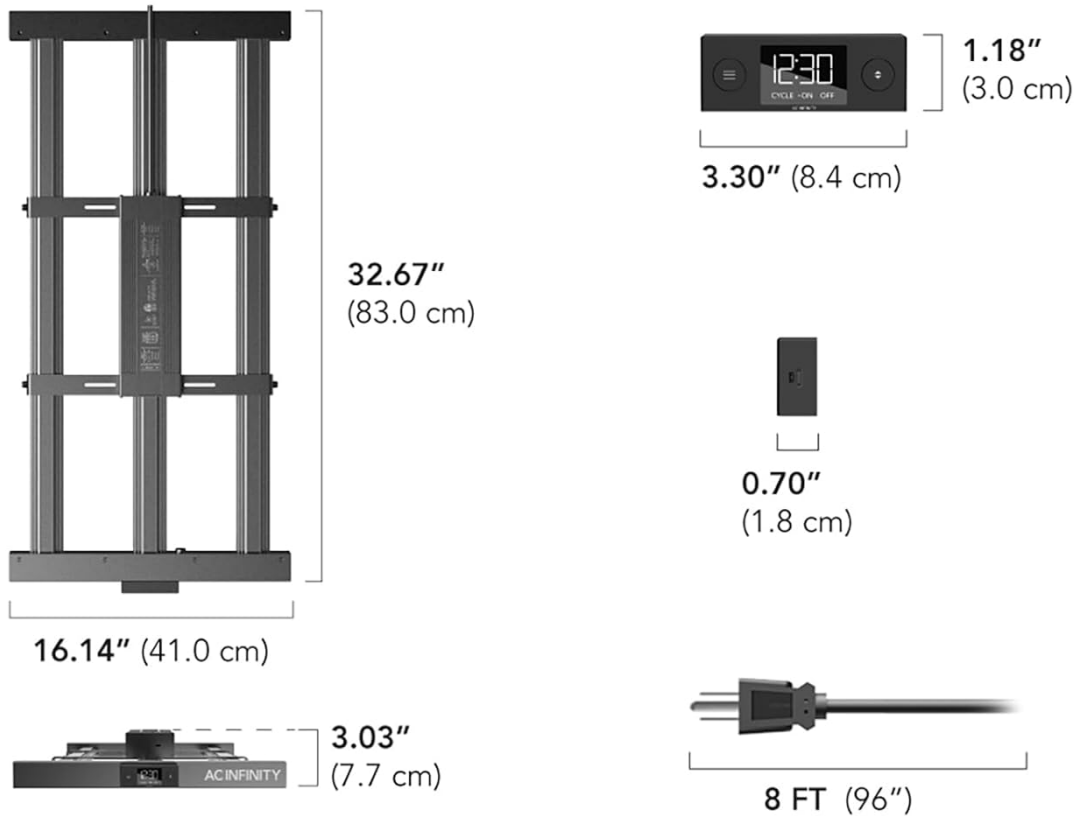


Figure 10: IONFRAME EVO3 Specifications and Dimensions.

Feature	Detail
Model Name	IONFRAME EVO3 (AC-IF3K)
Coverage (Veg)	3 x 5 ft.
Coverage (Flower)	2 x 4 ft.
Power Usage	280 Watts
Diodes	840 Samsung LM301H EVO
Diode Efficiency	3.14 μ mol/J PPE
Light Output Maximum	1745 PPFD
Brightness Levels	10 + Power Switch

Control Method	App (UIS Platform), Remote
Voltage	127 Volts (AC)
Material	Aluminum, Steel
Item Weight	17.4 Pounds
Product Dimensions	32.67 x 16.14 x 3.03 inches
Water Resistance Level	Water Resistant (IP-65 rating)

WARRANTY AND SUPPORT

Warranty Information

AC Infinity products are designed for durability and performance. For specific warranty details regarding your IONFRAME EVO3 LED Grow Light, please refer to the warranty card included with your product or visit the official AC Infinity website.

Contact Support

If you encounter any issues or have questions about your AC Infinity IONFRAME EVO3 LED Grow Light, please contact AC Infinity customer support. You can find contact information and additional resources on the [AC Infinity Brand Store](#) or their official website.