

## **How does it work?**

Full spectrum LEDs supply an ideal balance of light for vegetative plants and seed starting. The greenhouse design provides a protective, higher humidity environment perfect for starting plant clippings or transplanting indoors. LEDs run at low temps thus eliminating the risk of burning young seedlings/plants. With the timer set, the light automatically turns on and off ensuring your plants get plenty of light every day.

But how do the grow lights work? You've probably heard of photosynthesis, the process by which plants make food by trapping light energy in their leaves. That light has many different colors in it. Chlorophyll, a plant pigment which does the trapping and creates energy for the plant, usually absorbs red and blue light. These two colors' specific wavelength range, called Photosynthetically Active Radiation (or PAR for short), falls within 400 nanometer (nm) to 700 nm wavelengths, perfect for Chlorophyll A and B to manufacture sugar to fuel plant growth.

Our full-spectrum grow light provides both of these ranges in high amounts as well as in between ranges, too, which are important to other plant pigments. Even better, the combination of all spectrums is emitted as a natural, warm sun-like white color instead of the harsh bluish glare of other commercial grow lights.

## **Any growing tips?**

**Light Settings:** Different plants require different intensities and durations of light to thrive. Select 8 HOURS and adjust brightness to low-medium intensity for shade and low light plants. Choose 12 HOURS and adjust brightness to medium-max intensity for partial sun plants. And, use 16 HOURS at max intensity for full sun plants.

**Air Flow:** The Growhouse provides a protective environment, yet many plants benefit from air flow. It can strengthen their stems and help them stay hearty and upright, which is important when plants are started from seed and need to mature. To encourage air flow, place in a position where plants will receive an occasional slight breeze, whether from a window or a fan.

**Location:** Selecting an ideal indoor location is largely dependent on your preference and the plants you are growing. A sunny window can provide additional light and heat for fruiting and flowering plants or reversely too much heat for low light plants. A bathroom can provide a boost of humidity for water-loving botanicals. A vibrant vertical garden mounted on a wall can finally be achieved with a direct light source for your plants!

Watering: Watering frequency is dependent on the plant type. Make sure to factor in the environmental conditions based on the location of the Growhouse (sunlight, heat, humidity). If your planter(s) has a drain hole, make sure you add a tray underneath it to prevent water damage.

## **How do I set the timer?**

Attach the enclosed power adapter to the timer connector and plug power adapter into a wall outlet. Tap the SET TIMER button to toggle timer setting options. A blue light will illuminate for 10 seconds to indicate what setting is selected. Once the desired setting is selected, tap the INSTANT ON/OFF button to start the Growhouse timer/lights. LEDs will fade on over 4 ½ minutes and stay on for the selected time. At the end of the timer duration, the LEDs will fade out over 4 ½ minutes. The LEDs will stay off for the selected number of hours, and the sequence will repeat at the same time the next day. To temporarily turn off the Growhouse for the day, tap the INSTANT ON/OFF button twice. The Growhouse will turn off and resume the normal timer sequence the next day. To permanently turn off Growhouse, tap SET TIMER button until you reach the TIMER OFF setting.

## **How do I set the brightness?**

Default brightness is max intensity. Setting the brightness will not alter the timer setting. Press and hold the INSTANT ON/OFF button, then press SET TIMER button. Release both buttons. If done successfully, all four indicator lights will illuminate in the right-hand settings area. Press and hold INSTANT ON/OFF to decrease brightness. Press and hold SET TIMER to increase brightness. Release when you've achieved desired brightness. Press and hold the INSTANT ON/OFF button, then press SET TIMER button and release both buttons to complete and exit brightness setting mode. All four blue indicator lights will turn off.

## **How should I clean and care for the Growhouse? Any safety guidelines?**

For indoor use only. The LEDs have been permanently installed into this fixture. Do not repair, disassemble, or modify under any circumstances. Although LEDs do not get as hot as traditional light bulbs, they still generate some heat. Avoid touching the LED panel and do not cover lights with flammable objects. Do not try to modify the plug, cable or adapter. Use only with supplied AC power adaptor. Do not use the light if the power cord gets damaged. Avoid usage in high temperature areas. TO PREVENT RISK OF SHOCK OR INJURY, always power off and unplug Growhouse before cleaning. Use a soft and slightly damp cloth when cleaning LEDs. Do not use chemical or abrasive cleaners.