LBW 230304

LBW Grow Light User Manual

Model: 230304

Introduction

This manual provides instructions for the safe and effective use of your LBW 144 LED Full Spectrum Grow Light. This grow light is designed to support the growth of indoor plants by providing essential light spectrums for photosynthesis. It is suitable for various indoor gardening applications, including grow tents, greenhouses, and plant shelves, supporting all stages of plant development from seedlings to flowering and fruiting.



Image: The LBW Grow Light suspended above a collection of indoor plants, demonstrating its illumination.

Product Overview

Key Features

- **Full Spectrum LED Array:** Equipped with 144 super bright LEDs (74 Cold White + 46 Warm White + 20 Red + 2 Purple + 2 Dark Red), providing a comprehensive light spectrum for optimal plant growth.
- **Integrated Timer Function:** Features an automatic timer with settings for 4, 8, or 12 hours of operation, followed by corresponding off periods (20H, 16H, 12H off respectively).
- **Adjustable Brightness:** Offers 6 dimmable levels (10%, 20%, 40%, 60%, 80%, 100%) to customize light intensity according to plant needs and growth stages.
- **High Efficiency Design:** Provides significant light output while maintaining energy efficiency.
- **Flexible Installation:** Includes a sling for hanging and zip ties for securing to shelves, allowing for versatile placement. The light also features a 360° rotatable bracket for arbitrary angle adjustment.

Components Included

The package contains the following items:

- Grow Light with Timer Controller x 1
- Zip Ties x 4
- Sling with Hook x 1
- User Manual x 1
- Power Adapter x 1



Image: All components included in the LBW Grow Light package, laid out for clear identification.

Setup Instructions

1. **Unpack Components:** Carefully remove all items from the packaging and verify that all components listed in the "Components Included" section are present.

2. **Choose Installation Method:**
    - **Hanging Installation:** Attach the provided sling with hooks to the designated points on the grow light. Hang the light from a sturdy support structure, such as a ceiling hook or a grow tent frame, ensuring it is securely suspended above your plants.
    - **Shelf/Frame Installation:** Use the provided zip ties to secure the grow light to a plant shelf or a custom frame. Ensure the light is stable and positioned correctly.
    - **Tabletop Placement:** The grow light can also be placed directly on a tabletop or desk, utilizing its integrated stand for stability.
3. **Adjust Angle:** The grow light features a 360° rotatable bracket. Adjust the angle of the light to direct illumination precisely onto your plants.
4. **Connect Power:** Connect the power adapter to the grow light's input port, then plug the adapter into a standard electrical outlet.



Image: Illustrations demonstrating various installation methods for the grow light, such as hanging from above, mounting on a shelf, or placing on a flat surface.



Image: Detailed view of the grow light's features, including the LED arrangement, adjustable bracket, and the wired controller with its buttons.

Operating Instructions

The LBW Grow Light is operated via the inline controller. Familiarize yourself with the controller buttons:

- **Power Button:** Turns the light ON or OFF.
- **Timer Button:** Cycles through timer settings (4H, 8H, 12H).
- **Brightness Buttons (+/-):** Adjusts the light intensity.

Powering On/Off

Press the **Power Button** once to turn the grow light ON. Press it again to turn the light OFF.

Setting the Timer

The timer function allows the light to operate for a set duration and then automatically turn off, repeating the cycle daily. To set the timer:

1. Ensure the light is ON.
2. Press the **Timer Button** repeatedly to select the desired operating duration:
    - **4H:** Light stays ON for 4 hours, then OFF for 20 hours.
    - **8H:** Light stays ON for 8 hours, then OFF for 16 hours.
    - **12H:** Light stays ON for 12 hours, then OFF for 12 hours.
3. The selected timer setting will be indicated by an illuminated LED on the controller. The timer will activate from the moment it is set and repeat daily.

Adjusting Brightness Levels

The grow light offers 6 dimmable levels to suit different plant growth stages and light requirements:

1. With the light ON, press the **'+' Button** to increase brightness.
2. Press the **'-' Button** to decrease brightness.
3. Available brightness levels are 10%, 20%, 40%, 60%, 80%, and 100%.



Image: The inline controller with buttons for power, timer, and brightness adjustment, alongside visual representations of the timer cycles and brightness levels.



Image: A detailed view of the grow light's LED array, highlighting the different types of LEDs (Cold White, Warm White, Red, UV, IR) and their specific contributions to plant growth.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your LBW Grow Light.

- **Cleaning:** Periodically wipe the light panel with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged before cleaning. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check the power cord and connections for any signs of damage. If any damage is observed, discontinue use and contact customer support.
- **Ventilation:** Ensure adequate airflow around the grow light to prevent overheating. Do not obstruct the ventilation holes.

Troubleshooting

If you encounter issues with your LBW Grow Light, refer to the following common troubleshooting steps:

- **Light Does Not Turn On:**
  - Check if the power adapter is securely plugged into both the light and the electrical outlet.
  - Verify that the electrical outlet is functional by plugging in another device.
  - Ensure the power button on the inline controller has been pressed.
- **Timer Function Not Working:**
  - Confirm that a timer setting (4H, 8H, or 12H) is selected and indicated by the LED on the controller.
  - If power was interrupted, the timer may need to be reset.
- **Brightness Adjustment Not Responding:**
  - Ensure the light is powered ON.
  - Press the '+' or '-' buttons firmly.
- **Unusual Noise or Smell:**
  - Immediately unplug the device from the power source.
  - Do not attempt to repair the unit yourself. Contact customer support.

For issues not covered here, please contact LBW customer support.

Specifications

Product Name	LBW 144 LED Full Spectrum Grow Light
Model Number	230304
Product Size	10.43 x 5.5 inches (26.5 x 14 cm approx.)
Product Weight	1.56 lbs (712 g)
Material	Aluminium
LED Chip Quantity	144 pcs (74 Cold White + 46 Warm White + 20 Red + 2 Purple + 2 Dark Red)
Wavelength	Full Spectrum
Input Voltage	AC100V-240V
Rated Power	40W ± 5%
Lifetime	50,000 Hours
Mounting Type	Hanging
Special Features	Dimmable, Full Spectrum, Timer Function

Warranty and Support

LBW products are manufactured with quality and reliability in mind. For specific warranty information, please refer to the documentation included with your purchase or contact LBW customer support directly.
If you require assistance, have questions, or need to report an issue, please contact our customer support team. Contact details can typically be found on the product packaging or the official LBW website.

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