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DOMMIA DM-80W

DOMMIA 80W Dimmable Grow Light Strip Instruction Manual

Model: DM-80W

Brand: DOMMIA

1. INTRODUCTION

Thank you for choosing the DOMMIA 80W Dimmable Grow Light Strip. This product is designed to provide optimal lighting conditions for your plants, supporting their growth from seedling to flowering stages. Featuring multiple spectrum modes, dimming options, and individual strip control, this grow light system is versatile and efficient for various indoor plant cultivation needs.



Figure 1: DOMMIA 80W Grow Light System Overview

2. SAFETY INFORMATION

- Always disconnect power before installation or maintenance.
- Do not look directly at the LED lights when they are on, as this may cause eye strain.
- Ensure the product is installed in a dry environment. This product has an IP54 waterproof rating, meaning it is

protected from dust and splashing water, but it is not submersible.

- Keep out of reach of children and pets.
- Do not attempt to disassemble or modify the product. Refer to qualified personnel for repairs.
- Ensure the input voltage (AC110~240V) matches your power supply.

3. PACKAGE CONTENTS

Verify that all components are present and in good condition:

- 4 x LED Grow Light Strips (16 inches each)
- 1 x Smart Controller with Power Plug (approx. 11ft total wire length)
- Mounting Accessories (Adhesive pads, Zip ties, Mounting clips)
- Instruction Manual (this document)

4. SETUP AND INSTALLATION

The DOMMIA Grow Light Strips are designed for easy installation on various surfaces such as shelves, cabinets, or grow tents. Ensure the mounting surface is clean and dry before installation.

4.1 Mounting Options

- **Adhesive Pads:** For smooth, non-porous surfaces, attach the provided adhesive pads to the mounting clips and then firmly press the clips onto your desired surface. The design ensures no damage to furniture.
- **Zip Ties:** For wire shelving or other structures, use the included zip ties to secure the light strips through the mounting clips.



Figure 2: Example Installation on a Shelf



Figure 3: Installation on Wire Shelving

4.2 Connecting the System

1. Attach the mounting clips to each light strip.
2. Securely mount the light strips to your desired location using the chosen method (adhesive pads or zip ties).
3. Connect each light strip's cable to the smart controller. Ensure connections are firm.
4. Plug the smart controller's power plug into a standard AC110~240V electrical outlet.

Your browser does not support the video tag.

Video 1: DOMMIA Upgraded 80W Aluminum Plant Growth Light Strips - This video demonstrates the physical components and basic setup of the grow light system, including how the strips connect and are mounted.

5. OPERATING INSTRUCTIONS

The smart controller provides comprehensive control over your grow lights.



Figure 4: Smart Controller Features

5.1 Power ON/OFF

Press the power button on the smart controller to turn the lights ON or OFF.

5.2 Dimming Options

Adjust the light intensity using the dimming buttons (+/-). There are 5 light intensity levels: 20%, 40%, 60%, 80%, and 100%.

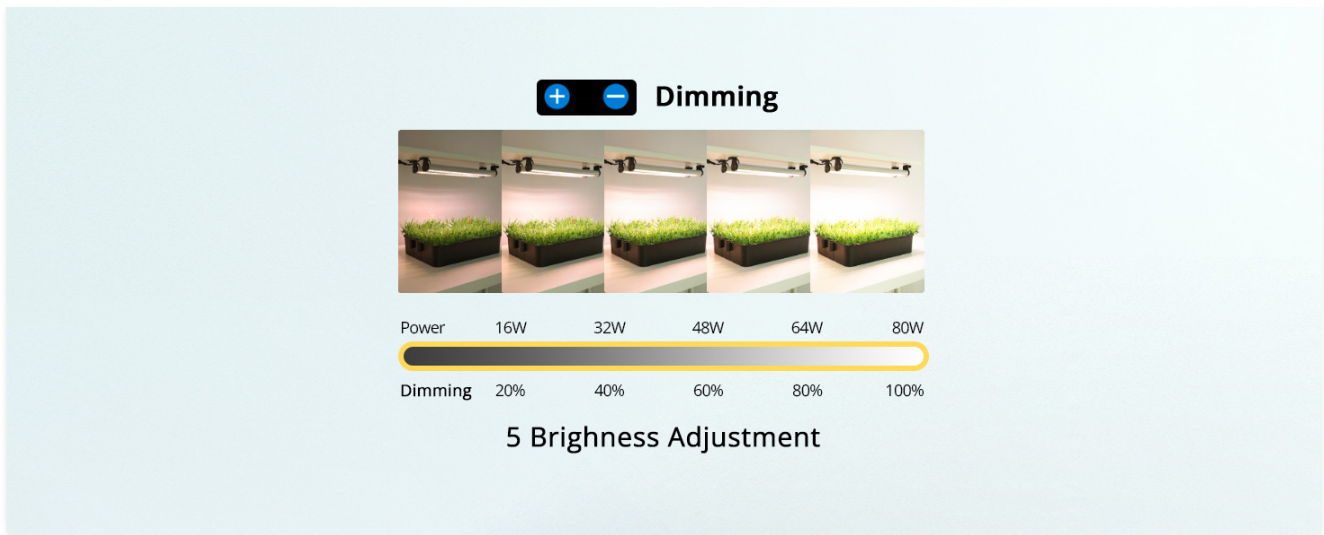


Figure 5: Dimming Levels

5.3 Timer Settings

Set the daily operating time for your lights. The timer repeats automatically every 24 hours. Available settings are 6H, 10H, 14H, and 18H.

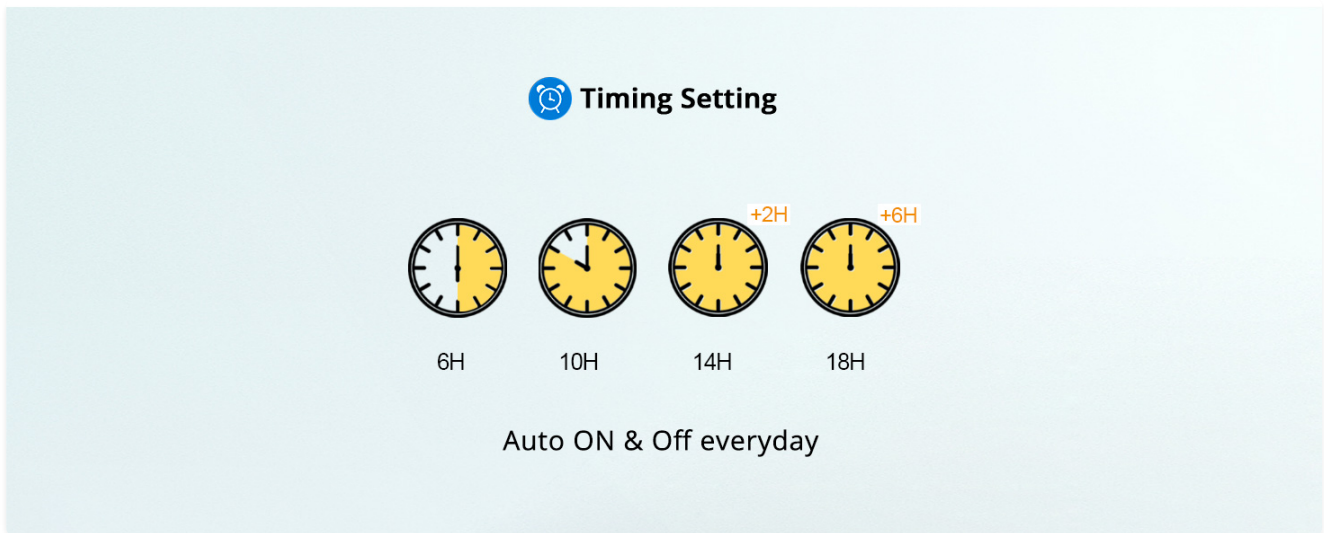


Figure 6: Timer Settings

5.4 Spectrum Modes

Choose from three different spectrum modes optimized for various plant growth stages:

- **Mode A (Nursery/Seed Starting):** Ideal for germination and early growth of low-light plants like succulents, cacti, rubber plants, and ivy. (3350K)
- **Mode B (Flowering):** Promotes flowering and fruiting in plants such as cucumbers, tomatoes, herbs, orchids, and chrysanthemums. (Purple light)
- **Mode C (Full Spectrum):** Provides a balanced spectrum similar to natural sunlight, suitable for sun-loving plants like tomatoes, peppers, and kale, supporting overall growth. (2800K)

3 Switch Modes



Figure 7: 3 Switch Modes for Different Plant Stages

5.5 Individual Strip Control

Each grow light strip can be individually turned ON or OFF using the dedicated switches on the controller. This allows for customized lighting based on specific plant needs and helps conserve energy.

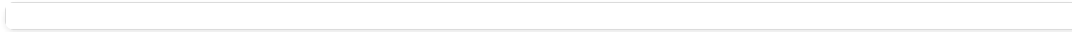


Figure 8: Independent Sub-Switch for Each Strip




6. PLANT CARE GUIDELINES

Optimal light distance and PPFD (Photosynthetic Photon Flux Density) vary by plant growth stage:

Growth Stage	Required PPFD ($\mu\text{mol}/\text{m}^2\text{s}$)	Light Distance (inches)	Example Plants
Germination	100-200	4-6	Low-light plants, seedlings, succulents, cacti, pothos
Growth	200-400	4-12	Various plants that require leaf growth
Flowering	250-600	6-12	Plants needing high light: vegetables, fruits, herbs, flowering plants

The robust aluminum structure of the DOMMIA grow lights ensures excellent heat dissipation, preventing heat buildup and extending the lifespan of the LED chips. This allows for stable and efficient lighting even in humid environments.

What Light is Best for Plant Growth?

Growth Stage	Required PPFD	IL Distance	Example Plant
 Germination	100-200 $\mu\text{mol/s/ m}^2$	4-6in	Low-light plants: seedlings, succulents, cacti, ivy, pothos
 Growth	200-400 $\mu\text{mol/s/ m}^2$	4-12in	Various plants that require leaf growth
 Flowering	250-600 $\mu\text{mol/s/ m}^2$	6-12in	Plants needing high light: vegetables, fruits, herbs, Flowering plant setc.

Good heat dissipation: **Aluminum**





 High PPFD for enhanced photosynthesis and plant growth

IL Distance	PPFD
4 in	849 $\mu\text{mol/s/ m}^2$
6 in	618 $\mu\text{mol/s/ m}^2$
8 in	521 $\mu\text{mol/s/ m}^2$

Poor heat dissipation: **Iron**

Others



 Insufficient light intensity, inadequate for normal plant growth

IL Distance	PPFD
4 in	247 $\mu\text{mol/s/ m}^2$
6 in	164 $\mu\text{mol/s/ m}^2$
8 in	86 $\mu\text{mol/s/ m}^2$

Figure 9: Heat Dissipation Comparison

7. MAINTENANCE

- **Cleaning:** Ensure the lights are off and cool. Gently wipe the light strips with a soft, dry cloth to remove dust. Do not use liquid cleaners directly on the LEDs.
- **Connections:** Periodically check all cable connections to ensure they are secure.

- **Replacement Parts:** Each part of this growing light system is replaceable, allowing for longer product lifespan. Contact DOMMIA support for replacement components.

8. TROUBLESHOOTING

- **Lights not turning on:**
 - Check if the power plug is securely connected to the outlet.
 - Ensure all light strips are properly connected to the smart controller.
 - Verify that the main power button on the controller is pressed.
- **One or more strips not lighting up:**
 - Check the individual ON/OFF switch for that specific strip on the controller.
 - Ensure the connection for that strip to the controller is secure.
- **Timer not working:**
 - Ensure a timer setting (6H, 10H, 14H, or 18H) is selected on the controller.

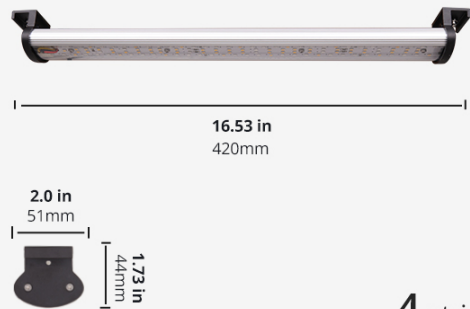
9. SPECIFICATIONS

- **Model:** DM-80W
- **Power:** 80W (total for 4 strips)
- **Light Source:** LED
- **Lumen Output:** 9600lm (2400lm per strip)
- **PPFD Output:** 908 $\mu\text{mol}/\text{m}^2\text{s}$ (high output)
- **Input Voltage:** AC110~240V
- **Waterproof Rating:** IP54
- **Material:** High-grade Aluminum (for superior heat dissipation)
- **Light Strip Length:** 16 inches (420mm)
- **Total Wire Length:** Approximately 11 feet (123.2 inches / 2040mm)
- **Spectrum Modes:** 3 (Nursery, Flowering, Full Spectrum)
- **Dimming Levels:** 5 (20%, 40%, 60%, 80%, 100%)
- **Timer Settings:** 4 (6H, 10H, 14H, 18H)
- **Number of Light Sources:** 4 individually controllable strips

 Size



Figure 10: Extended Power Cord and True Wattage



4 strips

Figure 11: Light Strip Dimensions

10. WARRANTY AND SUPPORT

For warranty information, please refer to the product listing on Amazon or contact Dommia Direct customer service. Keep your purchase receipt for warranty claims.

For technical support or inquiries, please reach out to Dommia Direct through the Amazon platform or their official contact channels.