

Smart Hydroponics Indoor Growing System

VB0012



**Perfect
Prime**[®]

www.perfectprime.com

User Manual



CONTENTS

Thank you for purchasing the PerfectPrime VB0012 Smart Hydroponics Indoor Growing System with LED Lighting. This user manual is intended to provide you with guidelines to ensure that operation of this product is safe and does not pose risk to the user. Any use that does not conform to the guidelines described in this user manual may void the limited warranty.

Please read all directions before using the product and retain this guide for reference. This product is intended for household use only. It is not intended for commercial use

This product is covered by a limited one-year warranty. Coverage is subject to limits and exclusions.

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SAFETY PRECAUTIONS

- Before plugging this device in, make sure that the power cord and wattage/voltage of the outlet supplying power to the unit comply with the recommended wattage/voltage on the rating label.
- Before cleaning, make sure to completely turn off and unplug this appliance.
- This appliance should not be used by children or persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they are closely supervised at all times, and/or have received extensive instruction and training on how to use this device by a person responsible for their safety.
- This product has no user-serviceable parts. Do not attempt to repair this product on your own. Only qualified service technicians should repair or service this appliance.
- Always make sure this appliance is turned off before connecting the power to a wall outlet.
- This product is neither designed nor intended to light large spaces such as living rooms. Do not use this product as a lighting appliance.



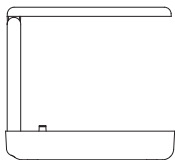
SAFETY PRECAUTIONS

- If for some reason the power cord becomes damaged, it must be replaced by either PerfectPrime , an authorized engineer, or a similarly qualified professional as soon as possible. **Do not attempt to repair or replace the power cord on your own.**





PACKAGE CONTENTS



Garden container
with LED light

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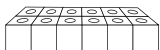


Power cable

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Planting hat



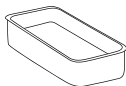
Sponges

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Planting baskets

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Seeding box



Measuring
container

+



Tweezers

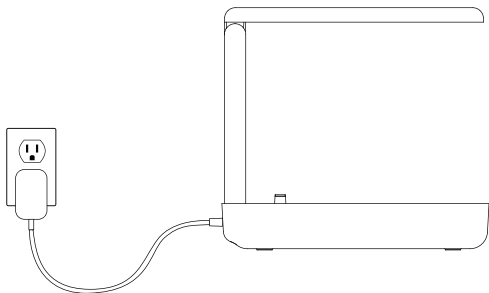
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User manual



INITIAL SETUP



1. Place the garden container on a flat, stable surface.
2. Connect the power cable to the container. The device will automatically begin a self-diagnostic. If the light bar stays on after flashing once, the unit is operating normally.

The seed process is fairly lengthy, and the sections are broken up in order to make the process simpler for you to follow over specified periods of time. See the list below to understand which section you should be following at which point in time during the growth process:

1. Preparing Seeds (page 3) – First 24 hours only
2. Planting Seeds (page 5) – After first 24 hours, for next 3-7 days or until roots reach necessary length.
3. Cultivating Seeds (page 6) – After roots reach necessary length, until plants are fully grown



PREPARING SEEDS

Nutrient concentrates are not required during this process. Every seed works differently, and your results may vary. Some seeds may grow faster than others. Please be patient and respect the process.

Accessories required:



Seeds
(not included)



Sponges



Tweezers

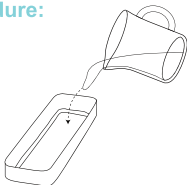


Water



Seeding box

Procedure:

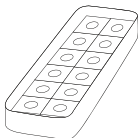
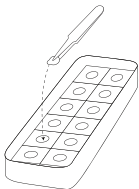


STEP 1

Pour a small amount of water into the seeding box (just enough to cover the bottom).

STEP 2

Sit the sponge(s) in the water, with the hole facing upward, until it's moistened and settles at the bottom.



STEP 3

Use the tweezers to place one (1) or two (2) seeds into each hole in the sponge.

STEP 4

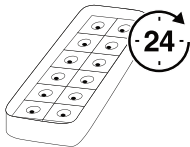
Add water slowly to the seeding box until the water level just reaches the top of the seed. Do not overfill the seeding box with water, or your seeds will drown and nothing will sprout.



NOTES: Some seeds require more water than others. Some will need water 1/3 of the way up the sponge during this phase, and others will just need to be slightly moist, with the water level just touching the seed. Every seed works differently, and your results may vary. Please test out water levels on one seed before filling all of the sponges with seeds and putting them in the seedling box.

STEP 5

Place the seedling box in the shade and wait for 24 hours.



NOTES:

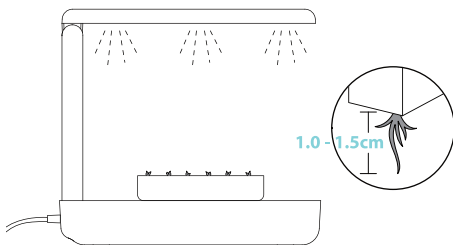
- The seedling box can hold a maximum of 15 sponges. Do not try to fit more than that.
- The LED light device is not required during this process. You may unplug the main container after initial setup and self-diagnostics until you need it again.
- Be very careful when adding water to the seed box. Too much water can drown your seeds, and too little can cause them to dry out.
- If you are unsure about water levels, we recommend that you try the process first, with just one sponge/seed, to figure out your seeds' ideal water levels, so that valuable seeds are not lost.



PLANTING SEEDS

Garden container

1. After 24 hours, your seeds should have little sprouts emerging from the top. Even if they do not, please continue with this process.
2. Connect the power cable to the growing system and turn it on. After the unit completes its self-diagnostic, turn on the LED lighting.
3. Set the seeding box on top of the growing system.
4. Keep the lights on until the roots have grown out of the sponge to approximately (1.0-1.5 cm). Make sure to continue maintaining the appropriate water level. Please note, this process can take some time (3-7 days) depending on the type of seed, and you may need to add a little more water every other day, so that the seeds do not dry out.





PLANTING SEEDS

NOTES:

- The growing system features an intelligent lighting system that automatically begins a cycle of 14 hours of light followed by 10 hours without light, to mimic the cycle of day and night. The timing may vary slightly. In order to properly boost the growth of your seeds, we recommend that you begin the lighting cycle around 5:00-9:00AM.
- Didn't set it up at the right time? Do not worry, just disconnect the power cable at the correct time, leave it off for about five (5) seconds, and then plug it back in and turn the lighting on. This will reset the activation time for the lighting cycle.
- The little sprouts you see emerging from the seed are the roots of your plant. If you provide too little water, the roots will wither, and if you provide too much water, the sponge may develop algae growth. Always make sure that the water level reaches approximately 1/3 of the way up the sponge.
- The duration of this phase of the growing process will vary from seed to seed, but generally takes about 5-7 days. However, certain plants can take up to 14 days to produce roots of the appropriate length.



CULTIVATING SEEDS

Accessories required:



Type A nutrient concentrate (not included)



Type B nutrient concentrate (not included)



Concentrate measuring container



8 1/3 cups (2 L) water



Tweezers



Planting basket

We recommend the use of our nutrient concentrates. Naturally, you can use other nutrient concentrates if you'd like, but we cannot guarantee their success.



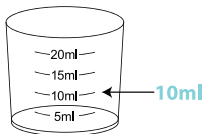
CULTIVATING SEEDS

First, you'll need to remove the plant bed or open the water inlet so you can add water to the growing system.

Step 1:

Combine these ingredients in a separate container before filling the reservoir, in the exact order described below:

1. 2 tsp (10ml) type A nutrient concentrate
2. Half of the water (1 L)
3. 2 tsp (10ml) type B nutrient concentrate
4. The remaining half of the water



When refilling the reservoir, as you will need to do periodically, proceed as follows: Ratio of Concentrate A : Concentrate B : Water = 1:1:200

1. Fill the reservoir with type A nutrient concentrate
2. Fill the reservoir with half the water
3. Fill the reservoir with type B nutrient concentrate
4. Fill the reservoir with the remaining half of the water

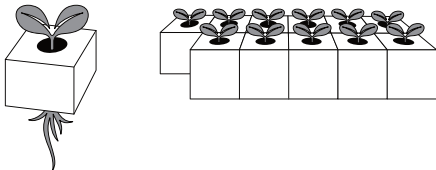
Notes on Concentrates:

- If Concentrate A and Concentrate B come in direct contact with one another, it can cause a negative reaction and lead to sediment on the floor of the reservoir. In order to avoid this, please follow the proper order of adding liquid to the reservoir: Concentrate A > half the water > Concentrate B > the other half of the water.
- The proper ratio of concentrates to water is as follows:
Concentrate A : Concentrate B : Water = 1:1:200

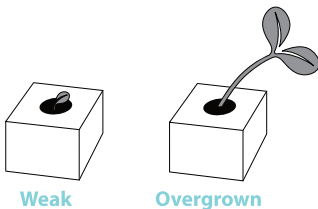
A high nutrient density can corrode the roots of your plants, and a low nutrient density will stunt their growth, so please try to follow this ratio.

Step 2:

1. Carefully cut the large sponge into small pieces, following the cut lines, and making sure that each piece of sponge only contains one plant.

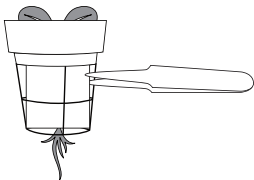


2. Remove the weak and overgrown plants, along with their sponges.



NOTE: The little plants in the sponges should by this point have about 2-3 leaves and the roots should extend out of the bottom of the sponge by about (1.0-1.5cm).

3. Using tweezers, place each small sponge piece with its plant into the plant basket. Make sure that each sponge is firmly at the bottom of the basket, and that the roots can grow down vertically.

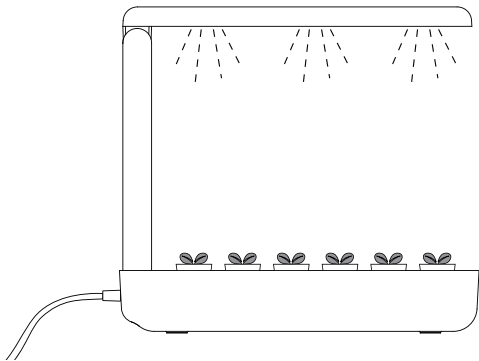


NOTE: Try not to squeeze all the water out of the sponge, and make sure the roots remain intact.



CULTIVATING SEEDS

- Place the plant baskets into the designated holes in the plant bed, making sure that the roots reach down into the water. Once the plant baskets are situated, turn on the LED light to begin a new light cycle until your plants are fully grown.



Notes on Cultivation:

- Place one planting basket in each empty hole of the plant bed. Use the planting hat to cover any empty holes, or else algae will grow in the water reservoir.



CULTIVATING SEEDS

- When harvesting your plants, try not to let any broken roots fall into the reservoir. Once the plant is harvested, remove and dispose of the roots, and store the basket for the next planting cycle.
- We recommend cleaning the reservoir at least once every month , in order to drain the concentrate residue and remove any sediment and broken roots.
- The planting baskets are designed for the cultivation of smaller plant and vegetable types, such as Coriander, Basil, and Mint. For other larger plants or vegetables, such as lettuce, etc., you will need to pay attention to the distance between plants, as the space can get crowded.



FREQUENTLY ASKED QUESTIONS

Why is it that plants grow faster in my Indoor Growing System than they naturally would in conventional soil?

The growth and development of your plants is 100% natural. The faster growth is due to the composition of the nutrient concentrate solutions. Most plants can only absorb ionic elements. When planted in conventional soil, these elements must first be dissolved from other organic elements and transported to the root, which then absorbs and further processes them. These same elements are contained directly in the nutrient concentrate solutions, without any further processing required by the plant. For this reason, plants will grow faster in your Indoor Growing System than they would when planted in conventional soil.

Does growing vegetables attract insects?

Your Indoor Growing System should be insect-free, since it uses no conventional soil, so there is no opportunity for insects to lay eggs. We recommend keeping your garden in a clean environment and regularly cleaning up the dust and fallen leaves, to make sure it does not attract bugs.

Does the LED light produce any harmful UV rays?

The LED light system does not generate any ultraviolet radiation, because it is not necessary for plant growth.



FREQUENTLY ASKED QUESTIONS

What is the best location to place my Indoor Growing System? Do the plants require additional natural sunlight?

Your Indoor Growing System only requires a power connection to operate. However, in order to more easily facilitate the transportation of water to and from the kit, it can be advantageous to place the kit in a room with easy access to a sink or a faucet. You can place the kit in your bedroom, in your kitchen, or even in a basement, as the ideal growth conditions for your plants are facilitated by the kit's systems. You should not, however, place it on any balconies or terraces, regardless of whether they are open or closed. Too much sunlight, too high of a temperature, and other weather effects can hurt the growth of your plants.

Is it acceptable to plant plants in different growth phases directly next to one another?

The more mature a plant is, the stronger its roots and the bigger its leaves are. Both of these factors can affect the growth of smaller plants that might be in the vicinity of a more well-developed plant. Therefore, newer plants should always be planted a sufficient distance from existing ones.

Why can't nutrient concentrates A and B be mixed?

Mixing concentrates A and B results in a chemical reaction that forms insoluble sediments. The plants cannot absorb these sediments, and thus the two solutions cannot be mixed.



FREQUENTLY ASKED QUESTIONS

Are there chemicals in the nutrient concentrates? Are the chemicals harmful?

Our specially developed nutrient concentrates contain all the necessary minerals for healthy plants, including macro-elements like nitrogen, phosphorus, potassium, calcium, magnesium, and sulfur; and micro-elements like iron, manganese, zinc, copper, boron, and more. This rich combination of active ingredients contains all the important elements that are vital to the natural growth process of plants.

*Please note that the nutrient concentrates are sold separately from the VB0012.

How often should the nutrient concentrate solution/water mixture be refilled?

For optimal results, always mix the nutrient concentrate solutions with water directly before filling the reservoir. Do not mix extra and try to save it for future refilling, as it will most likely not hold up. While your plants are small, the nutrient solution should be replenished every two (2) weeks. Once they are transplanted to the larger reservoir and plant bed, the frequency increases to every 3-5 days.

Can algae growth occur in my Indoor Growing System?

Algae can occasionally develop in the water tank, but this is safe, natural, and not harmful. To reduce the risk of algae, make sure to regularly clean the water tank with disinfectant, and cover any plant bed holes not in use, so the light does not shine directly into the water.

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Your emails are important to us so we strive to reply all inquiries and emails within **24 hours**. In exceptional cases, we may require more time to respond.

Thank you for your understanding.

For more information about our products and services, please send us an email:

cs@perfectprime.com

For B2B or project-based application, please send an email:

sales@perfectprime.com

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