

4. Ensure pH between 5.5-6.5 adjust by Soda (pH+) \ Lemon(pH-).  
For pH adjustment instruction, please refer to following Chart at below.

Satus	4.0-4.5	4.5-5.0	5.0-5.5	5.5-6.5	6.5-7.0	7.0-7.5
Soda (pH+)	Add 2.5g	Add 2g	Add 1g	Standard range	no Add	no Add
Lemon(pH-)	no Add	no Add	no Add	Standard range	Add 2.5g	Add 5g

**B3. Growing Stage**

1. When plants grow to over 2 inches height, switch to L mode. Please refer to Chart II.
2. After 4-6 weeks, harvest the larger plants for consumption and keep smaller plants growing.
3. For time saving, sow the new seeds in sprout tray one week before you start next planting process.



**C. Sprouts and Microgreens**

1. Before you start next seedling, take advantage of the seedling tray for sprouts and microgreens. It takes 7-10 days to harvest.
2. Put seeds in warm water(recommended temperature is 95° F , not over 104° F) for 24 hours.
3. Cover the sponges with wet paper towels.
4. Place the seedling tray with cover in the shade or cover it with black cloth.
5. After germination, during the growing stage, keep green sprout under the light and white sprout in the shade or cover it with black cloth; in 7-10 days, you can harvest.



**D. Optional Accessories**

1. 500W Water Auto Heater



**E. Maintenance**

**E1. Add Water**

1. Measure the pH/EC value every 1-2 weeks and add water to maintain the vlaue balance.

**E2. Change Water**

1. After a cycle of planting, change the water and clean the unit.
2. When changing water, clean water gateway on each planting layers, you may also add moss detergent in the water tank to avoid the moss remaining.
3. On the regular basis of every 1-2 weeks, clean the filtering sponge in the pump.
4. Regularly clean the filter sponge in each planting layer every 1 week.

**E3. EC Meter Use and Calibration**

1. Keep the electrode clean of EC meter and cover the electrode protective cap when not in use.
2. Turn off the meter when not in use for an extended amount of time.

**F. Troubleshooting**

Issue	Checkpoints / Solution
Lamps not lighting up	<input type="checkbox"/> Make sure all power cables are connected.
	<input type="checkbox"/> Make sure LED status is ON.
	<input type="checkbox"/> If it is on timing mode, the lamp has off time, during 24-hour cycle.
Pump has a buzzing sound	<input type="checkbox"/> Pump may make a buzzing sound in the beginning due to air inside the pump. After a minute with water running through the pump, this could be reduced.
The lamp/ pump stop after hours	<input type="checkbox"/> Rotate the ring at the end of the pump clockwise or counterclockwise to get the most suitable water flow.
Water Over flows	<input type="checkbox"/> Make sure it is not clogged at the water flowing gateway on each planting layer

**APP Download**



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**Grow Wall 3**   
Hydroponics Grow Wall 3 



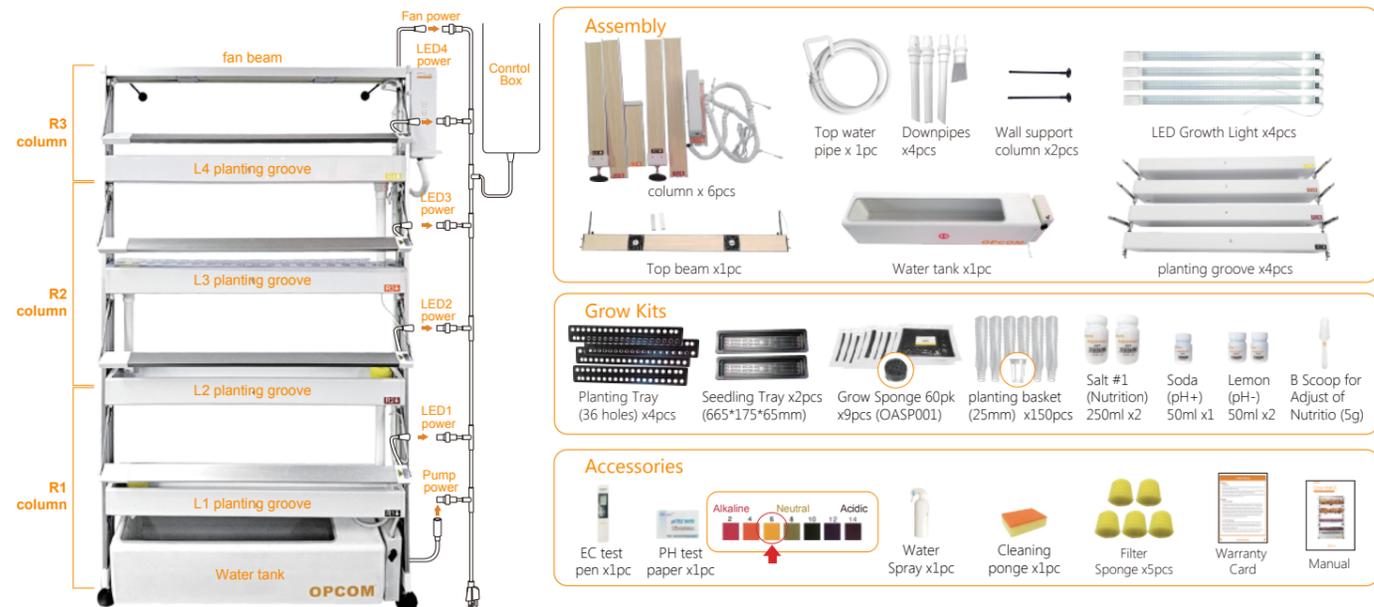
Manual

# Grow Wall 3<sup>WiFi</sup>

Thank you for purchasing OPCOM Farm Grow Wall 3<sup>WiFi</sup>, the indoor hydroponics growing system. It is designed for easy to use and efficient growth by one-touch AUTO mode. It holds up to 144 plants capacity. Please read the quick guide carefully before setting it up. For detailed user guide video, please visit Grow Wall 3<sup>WiFi</sup> page at <http://www.opcomfarm.com>

## A. Assembly

### A1. Remove all the parts from box and check all the accessories



### A2. Assemble GrowWall 3<sup>WiFi</sup>

- Assemble the left and right three short column into two left and right column.
- Hang the four planting groove on the four screws of different heights on the column, and fasten with a pull buckle to fix it.
- Place the top beam on the top of the column and fix it with a buckle.
- Assemble two wall brackets in a rotating manner behind the top beam and tear off the double-sided tape and stick to the wall.
- Rotate the downspout up and down and disassemble it into an upper downspout and a lower downspout. After nest the upper downspout with metal gaskets and waterproof gaskets through the drain hole at the bottom of the planting groove, rotate the lower downspout from the bottom of the planting groove to the upper downspout tightly.
- Hang the L-shaped hard pipe of the upper water pipe on the right side of the uppermost planting groove, pass the hose below the L-shaped hard pipe through the pipe groove of the right column, nest the end of the hose over the port on the right side of the water tank above the pump pack.
- Put four filter sponges on the upper downspout in the four planting groove, one filter sponge on the filter in the water tank, and cover the four planting trays on the four planting groove respectively.
- Lock the four LED grow lights to the four light arms using the screws you removed from two sides of the LED grow lights.
- Connect the 6 round hole plugs plugged into the main line of the control box to the fan (Fan), the motor (Pump) and the 4 LED growth lights respectively, and insert the power supply plug of the control box into the socket. Insert the cable tie terminal corresponding to the main line into the corresponding hole of the right column.



### Water Control Box:

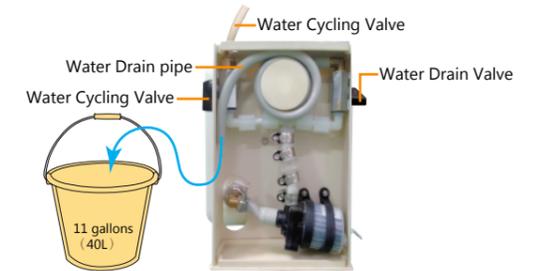
- Open the water control box on the left side of the water tank by pulling up the side planks. Take out the water drain pipe from the storing disk.
- Prepare a water bucket with a capacity of around 40 L. Place the outlet of the pipe on the bucket. Press the Pump button to turn on the pump and switch the water drain valve to 'Out' to start draining.
- Once finished draining, press the Pump button to turn off the pump and switch the water drain valve to 'Stop' to stop draining. Set everything back to default.

### Chart I: Control Box

Smart Control Box

Fuction	Status	Operation	Panel Light
LED	Wifi pairing	Long press 5 sec	●
	ON	One Press	●
	OFF	One Press	●
Fan	ON	One Press	●
	OFF	One Press	●
Pump	ON	One Press	●
	OFF	One Press	●

Restore factory settings after power failure.

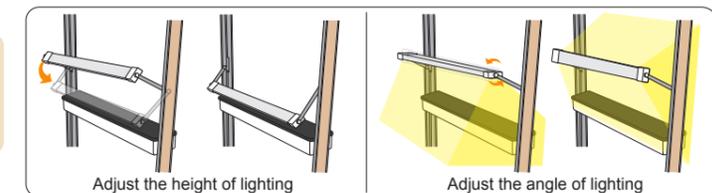


### A3. LED light planting mode Control

- Select the mode of the LED grow light (you may switch between modes through the button on the left side of the LED lamp holder)(see figure 1), the light comes with two modes: G and L.
- Height of the LED grow light: Adjust the height and the angle of lighting manually through the rocker arm(see figure 2).
- This hydroponics system comes with fans that improve the air circulation and accelerate the cooling of the LED tubes, which increases the ventilation and avoids plants from overheating. Please make sure to keep a 5-10 cm distance between the light tube and the plants to further prevent plants from overheating. To boost the light intensity in a power-saving way, direct the light at both the plant and the wall simultaneously, which could add 30% more lighting to the plants.

Fuction	Operation	Status
LED grow light planting mode	Switch to G	G
	Switch to OFF	OFF
	Switch to L	L

figure 1



Adjust the height of lighting

Adjust the angle of lighting

figure 2

Please read and follow every steps to avoid any malfunction.

## B. Seedling

### B1. Germination Stage

- Add water to the seedling tray, up to the water (red) level.(Fig1)
  - Open Grow Sponge package, put each sponge piece into water of seedling tray (make sure the front side with the seed label is side up), press the sponges into water 5 seconds and ensure the sponges absorb water completely. Put seed moisturizing cover on the sponges.(Fig2)
  - Place the seedling tray with cover in the shade.(Fig3)
  - Suggest using Watering Spray water to sponges and keep them wet everyday.
  - During 0 ~ 7 days, find the sprouted ones in the tray; pick them out, and move them into product and to next stage: B2. Young Plant Stage.
  - Discard unspouted sponges after regular germination time.
  - In each sponge, keep strong plants and cut the other weak plants.
- \* Different plant may have different germination time, please check before plant.

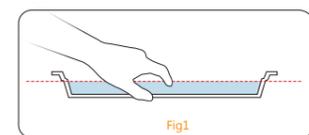


Fig1

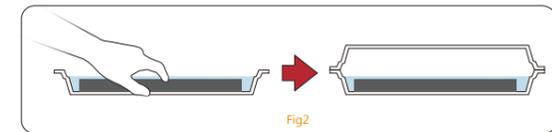


Fig2

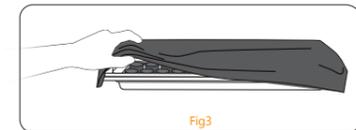


Fig3

### Chart II: Plant Stage

Basil, Lemon Balm	Planting Time	LED Mode	Pump Mode	Nutrition	T (°F)	RH	EC	PH	Notes
Germination Stage	Day 0~7	OFF	OFF	Don't need	68°F - 77°F	80%	0.5-1.0	5.5-6.5	Be sure each sponge is fully wet in seedling tray.
Young Plant Stage	Day 3~14	G Mode	ON	Need	59°F - 86°F	45%-70%	1.0-2.0	5.5-6.5	
Growing Stage	After Day 14	L Mode	Free setting	Need	59°F - 86°F	45%-70%	1.0-2.0	5.5-6.5	

\* Please keep the seeds in refrigerator if you don't use it, recommended temperature is 41°F - 50.  
 \* For your expected plant amount, you can refer to the sprout rate of 1st planting cycle.  
 \* If you need more planting information, please visit to [www.opcomfarm.com](http://www.opcomfarm.com) and read "Plant Q&A".

### B2. Young Plant Stage

- Add 10.5 gallons water to the water tank.
- During Young Plant Stage, turn on LED and Pump. Please refer to the Chart II.
- Add Salt #1 (Nutrition) into the water tank and ensure EC value between(=1.0-2.0mS/cm)

EC value Status	when 0.0-0.5	when 0.5-1.0	when 1.0-1.5	when over 2.0
Adjustment method	Add 2g Salt #1	Add 1g Salt #1	Standard range	Add water