

Keisue



**State of the Art: KES3.0 Micro Farm
Installation and Operation Manual**

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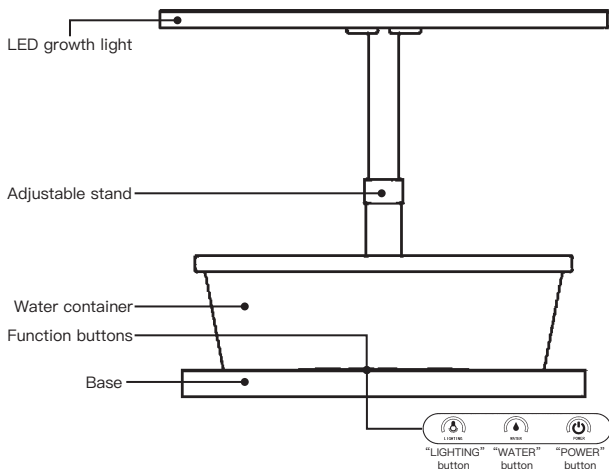
Please read through the user manual for the best user experience.

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Product specification of KES 3.0 Micro Farm

Front side

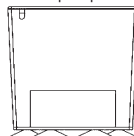


Accessories of KES 3.0 Micro Farm

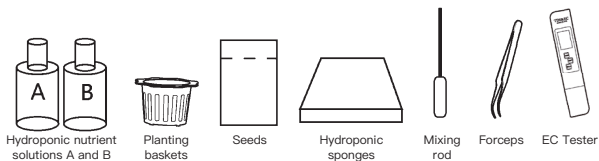
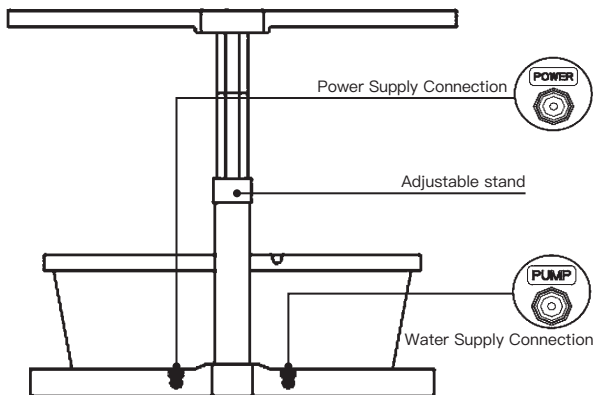


Planting board

Water pump



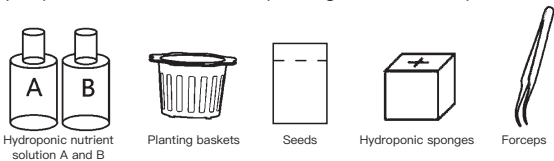
Back side



Ready to start

1. Tools Preparation

Seeds, hydroponic sponges, hydroponic nutrient solution A, hydroponic nutrient solution B, planting baskets, forceps



Reminder: Use tap water or mineral water as the water sources for cultivation.

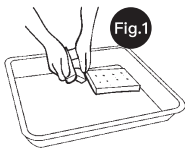
2. Seed soaking

Prepare 6 seeds. Soak the seeds in water ($20 - 30^{\circ}\text{C}$) using a container for 2 to 3 hours.

Reminder : it is advised that 1 seed per sponge for planting.

3. Seedlings grow

- Prepare and separate 6 pieces of hydroponic sponges. See Figure 1.
- Soak the sponges into water with 3–5 times light press. Squeeze out air for keeping the sponges moist.
- Put the soaked seeds into the " cross mark" of the hydroponic sponges to fix the seeds positions and absorb adequate water. See Figure 2.
- Fix the sponges in planting baskets. The sponges should be in touch with



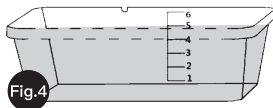
the bottom of planting baskets. See Figure 3.



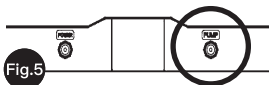
Reminder: The hydroponic sponge should be fixed at the bottom of planting basket to ensure adequate absorption of water.

E. Install the water pump at the water container center.

F. Add water into the container until reaching the interval of “5”. The intervals are shown in the inner surface of the container. See Figure 4.



G. Connect the water pump to the power supply “PUMP” located at the stand back. See Figure 5.



H. Cover the container with planting board. Place all the planting baskets prepared in (3) on the board.

I. Connect the power source. Press the “POWER” button, followed by the “WATER” button. See Figure 6.



Function Description

The illustration of control panel



Lighting button

Water button

Power button

The illustration of buttons

Press the “POWER” button when the power supply is connected. The default time setting for this product is 06:00.

Press the “WATER” button and “LIGHTING” button. The default time setting for water and lighting operation is from 06:00 to 21:59.

To Switch off the machine, press the “POWER” button, the water and lighting supply will shut down simultaneously.

Reminder: If the power supply is disconnected for a few hours, the machine will resume default setting when reconnected.

The setting of “LIGHTING”

Press down the “LIGHTING” button for 3 seconds until it flashes to enter the setting mode of light intensity. There are 4 modes of light intensity.

Mode 1: The “LIGHTING” button flashes once in 1.5 seconds, the light intensity is 25%.

Mode 2: The “LIGHTING” button flashes twice in 1.5 seconds, the light intensity is 50%.

Mode 3: The “LIGHTING” button flashes three times in 1.5 seconds, the light intensity is 75%.

Mode 4: The “LIGHTING” button flashes four times in 1.5 seconds, the light intensity is 100%.

Choose mode by clicking the "LIGHTING" button in the setting mode. Press down 3 seconds to exit the setting.

The setting of “WATER”

Press down the “WATER” button for 3 seconds until it flashes to enter the setting mode of water cycle frequency. There are 4 different modes of water cycle frequency.

Mode 1: The “WATER” button flashes once in 1.5 seconds. The water cycle operates for 5 minutes in every hour.

Mode 2: The “WATER” button flashes twice in 1.5 seconds. The water cycle operates for 5 minutes in every 4 hours.

Mode 3: The “WATER” button flashes three times in 1.5 seconds. The water cycle operates for 5 minutes for every 16 hours.

Mode 4: The “WATER” button flashes four times in 1.5 seconds.

The water cycle operates for the entire 16 hours. Choose mode by clicking the “LIGHTING” button in the setting mode. Press down 3 seconds to exit the setting.

Table 2

The operation time of electric water pump for different modes				
Time slots	Mode 1	Mode 2	Mode 3	Mode 4
6 : 0 0 – 6 : 0 5				<div>6:00</div> <div>↓</div> <div>22:00</div>
7 : 0 0 – 7 : 0 5				
8 : 0 0 – 8 : 0 5				
9 : 0 0 – 9 : 0 5				
10 : 0 0 – 10 : 0 5				
11 : 0 0 – 11 : 0 5				
12 : 0 0 – 12 : 0 5				
13 : 0 0 – 13 : 0 5				
14 : 0 0 – 14 : 0 5				
15 : 0 0 – 15 : 0 5				
16 : 0 0 – 16 : 0 5				
17 : 0 0 – 17 : 0 5				
18 : 0 0 – 18 : 0 5				
19 : 0 0 – 19 : 0 5				
20 : 0 0 – 20 : 0 5				
21 : 0 0 – 21 : 0 5				
22 : 0 0 – 22 : 0 5				

5. To set product time, Press the "POWER" button to switch on the machine. Press down the "POWER" button for 3 seconds for auto dealt time setting (08:00am). The setting finish when the "POWER" button flashes for 3 times.

Cleaning and caring

Cleaning

To maintain a clean environment for plantation, it is advised that the planting board and water container should be washed after harvest. Please avoid making the plug wet.

1. Machine cleaning: Switch off the "POWER" button. Disconnect the power supply and water pump. Dispose the waste water and dry the machine at ventilation location.
2. Hydroponic sponge: Consumable. Dispose after planting.
3. Planting baskets: Reusable. Clean and reuse after planting.

Reminder: Please use neutral detergents for cleaning.

Caring

1. Please strictly follow the instructions of this user manual. It is advised to use the default mode of this model for the best user experience.
2. Avoid making the plug and cables wet when cleaning.
3. This product is designed for indoor use only. Avoid direct illumination of sunlight. To avoid accidents, place the product on a flat surface. To ensure ventilation, the back of the machine should have a minimum distance of 10 cm with the wall.

Malfunctioning and solution

There is a protection function for water pump. Water pump would not operate with 2 situations:

- Water level is too low
- No water in the water container while the "WATER" button is switched on

Solution:

- Switch off the "WATER" button and add water to level "1" in the container.
- Check the connection of water pump power.

If the water pump is still malfunctioning after switch on the water pump, contact the distributor for assistance and maintenance.

Safety precautions

General safety precautions

- Disconnect the power supply before cleaning or carrying out maintenance. Do not touch with wet hands. Ensure the power and cables are dry before reconnecting the machine.
- Avoid placing the machine at wet location.
- Disconnect the power supply if the machine is not in use.
- Do not place heavy items on the top of the product to avoid damaging the LED light stand.
- The voltage of this product is from 100V AC to 240V AC. Please ensure the source of power supply is suitable for operating the product.
- Use water and neutral detergents to clean the machine. Avoid using metal brushes, alcohol, etc. Torn and wear of this product could lead to growth of bacteria.
- Contact the distributor for assistance and maintenance if the product is malfunctioning.
- The manufacturer of this product is not liable to bear any responsibility of damages because of improper usage and man-made damages. The above situations are not entitled to one-year warranty that users have to pay for maintenance costs.
- The product is made for plantation only. Do not use it for other purposes.
- Do not look directly at the LED light to avoid eye discomfort.

Safety precautions during planting

Please read through the following instructions when using this product for planting:

1. When mixing the nutrient solution, adding water or sowing, please keep your hands clean to avoid growth of bacteria that hinders the growth of plants.
2. Use disposable gloves to prevent allergy.
3. Follow strictly on the ratio of mixing the nutrient solution to ensure better growth of plants. Avoid using other brands of hydroponic nutrient solution.
4. Use tap water as the medium to grow plants. As the pH value for tap water is slightly alkaline, it is advised to use pH calibrating solutions when adding nutrient solution to the solution mix so as to adjust and keep the pH value of the mix in the range 5.8 to 6.2.
5. The output voltage of this product is DC 12V.
6. Ensure the water level container water level is at interval "1" before switch on the water pump.

Product specifications

Product Name	: KES 3.0
Power Source	: 100V AC–240V AC
Output voltage	: 27W
Dimension	: 400mm x 268mm x 238mm (lowest) 400mm x 268mm x 375mm (highest)
Weight	: 3.2 kg (Net weight) / 4.3 kg
Colour	: Black, White, Baby Blue, Pink

Please register for the one-year warranty at

<https://www.mpoint.com.hk/warranty>

The terms and conditions for warranty can be found in the above website.



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