

使用说明书

专注家庭无土栽培

BRING YOU AN INTELLIGENT PLANTING EXPERIENCE

INTELLIGENT PLANTING MACHINE

智能种植机 Z206

OPERATION INSTRUCTIONS



- ◆ 标准版 (不带WIFI)
- ◆ WIFI版

2021 第二版 Z206



带给你
智能的种植体验

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室内种植

喜欢园艺, 但您的空间有限? 给自己创建一个自动灌溉的花园. 适合室内使用, 无论在厨房、窗台或者客厅卧室, 全年种植您最喜欢的蔬菜花卉.

轻量级和便携式

把它放在任何你想要的地方, 种植您最喜欢的植物和香草. 罗勒、百里香、鼠尾草、欧芹、香菜、樱桃番茄、迷迭香、辣椒、花卉甚至草莓都是完美的搭配. 享受新鲜蔬果和香草, 没有虫害和农残留.



Indoor Planting

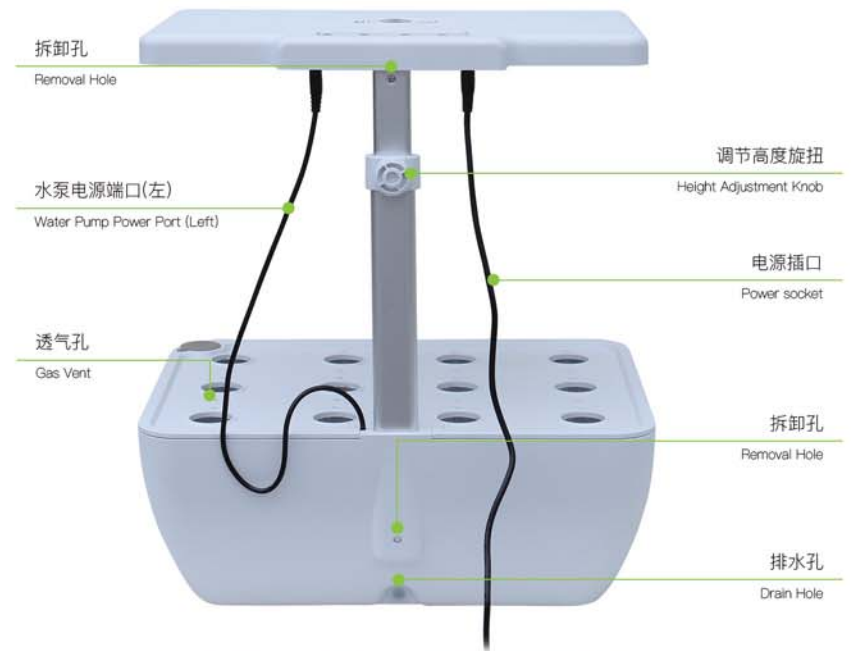
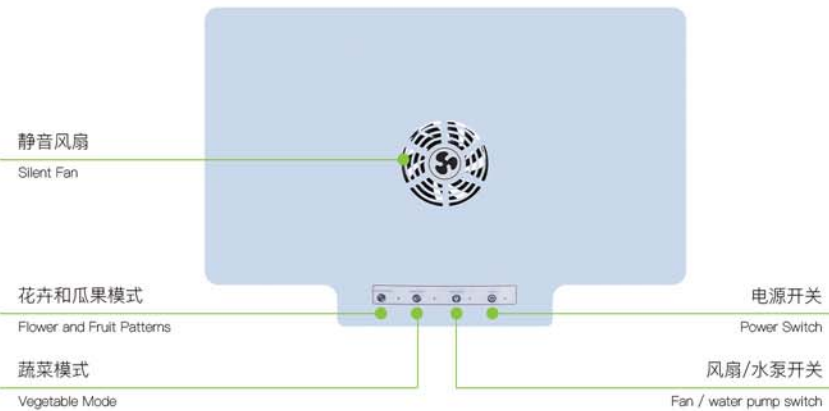
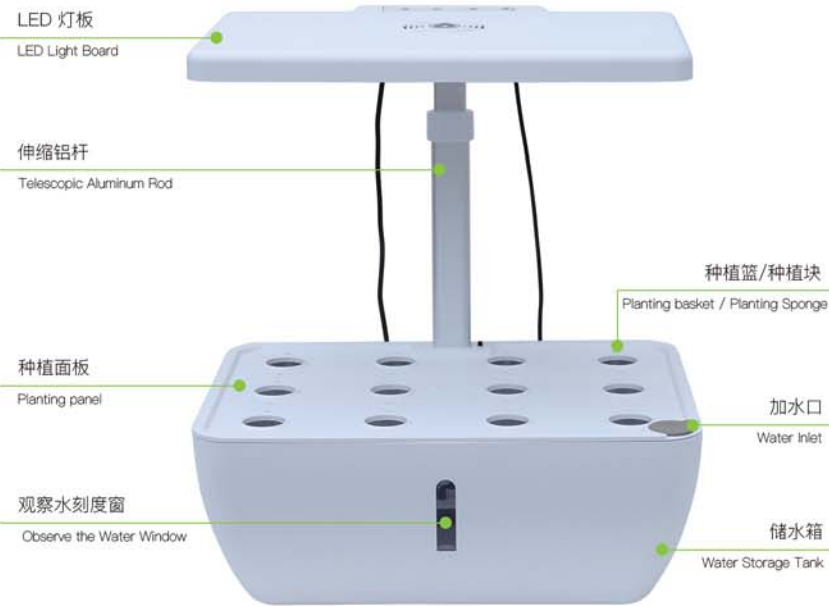
If you like gardening, but your space is limited? Then you can create your own garden with automatic irrigation function. This garden is suitable for indoor use, whether in the kitchen, windowsill or living room bedroom, you can plant your favorite vegetables and flowers all year round.

Lightweight and Portable

Put it wherever you want, you can plant your favorite plants and vanilla series of basil, thyme, sage, parsley, parsley, cherry tomato, rosemary, pepper, flowers and even strawberries, which can be a perfect match. Please enjoy fresh fruits, vegetables and herbs free of pests and agricultural residues.

产品零件介绍

Products Introduction



种植篮/种植块
Planting Basket/
Planting Sponge



伸缩铝杆
Telescopic Aluminum Rod



LED补光灯
LED Light Board



静音风扇
Silent Fan



孔盖
Hole Cover



育苗罩
Seedling Cover



加水口
Water Inlet



循环水泵
Circulating Water Pump



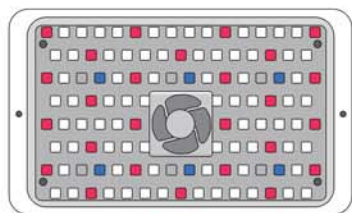
触控面板
Touch Panel

安装步骤

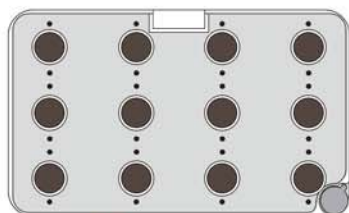
Installation Steps

1. 取出配件

1. Take out the accessories



1 灯板
Light Board



2 种植机面板
Planting Machine Panel



3 伸缩铝杆
Telescopic Aluminum Rod



4 循环水泵
Circulating Water Pump



5 孔盖*6
Hole Cover * 6



6 育苗罩、种植篮*12
Seedling Cover and Planting Basket * 12



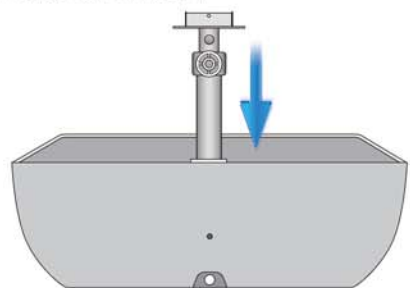
7 贴纸*12
Sticker * 12



8 适配器
Adapter

2. 将伸缩铝杆插入种植盒中

3. 将灯板按紧在伸缩铝杆上



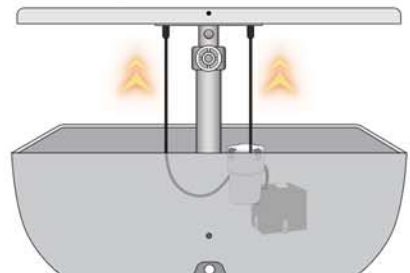
2. Insert the telescopic aluminum rod into the planting box 后视图



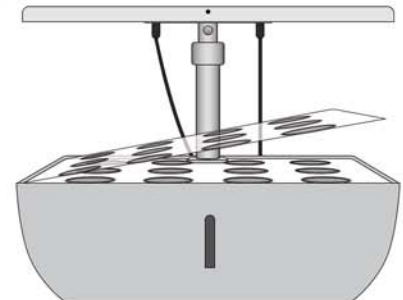
3. Press the lamp panel tightly on the telescopic aluminum rod 后视图

4. 将电源线分别插入灯板上对应的端口

5. 将种植面板铺到机器上



3 4. Insert the power cord into the corresponding port on the lamp board 后视图



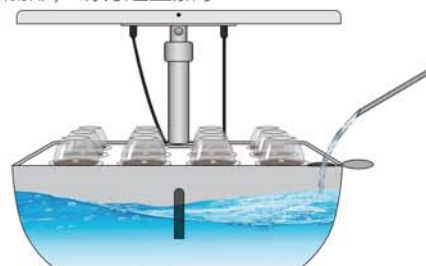
5. Lay the planting panel on the machine 正视图

6. 种子提前浸泡清水6小时后，放入浸泡清水5分钟以后的种植绵穴孔底部。



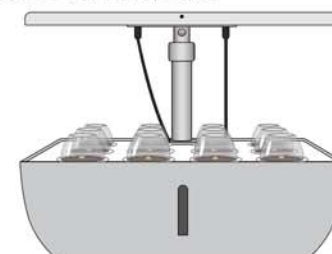
6. After soaking the seeds in water for 6 hours in advance, put them into the bottom of planting hole after soaking in water for 5 minutes.

8. 储水箱加入清水至6.5L水位，保持水位轻触种植绵底部，请勿超量加水。



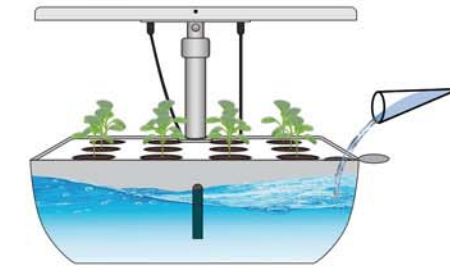
8. Add fresh water into the water tank to the water level of 6.5L, keep the water level gently touching the bottom of planting cotton, and do not add excessive water.

7. 种植绵块套上种植篮并放入种植面板孔内，盖上育苗罩并开启补光灯。



7. Put the planting basket on the planting block and put it into the hole of the planting panel, cover the seedling cover and turn on the fill light.

9. 1~3天内注意观察种子是否萌芽，初见种子萌芽即可立刻撤掉育苗罩，以防徒长，等待种子萌出叶片后，再按比例添加营养液。



9. 1~3 days to observe whether the seed germination, the first seed germination can immediately remove the seedling cover, in order to prevent overgrowth. After the seeds sprouted leaves, the nutrient solution was added in proportion.

10. 生长期需保持储水箱中水源为营养液水，比例详见营养液说明书，通常情况下，需每周添加一次营养液。



10. During the growth period, the water source in the water storage tank should be nutrient solution water, and the proportion is shown in the nutrient solution manual. Generally, nutrient solution should be added once a week.

种植注意事项

Precautions for planting

1. 首次使用时,水泵在无水工作或者加水后首次开启时因泵内有空气未排出会有异响属于正常现象,连续工作3-5分钟或者重启几次水泵按键,异响即可消失。
 2. 建议保持水质干净,水中有杂质会影响水泵工作,在经过长时间使用过程中如果水泵有噪音或不工作,可取出水泵拆下过滤盖检查内部是否有卡壳,以免影响正常工作。
 3. 种子可提前浸泡清水约6小时,随后放入充分浸湿的种植棉块的穴孔底部,开启补光灯。(不同种子发泡时间不等)。
 4. 一般情况下每个种植棉块建议放入2颗种子,育苗期可选长势优良的保留,长势不良的可轻轻拔除或用剪刀剪掉即可,建议仅保留一颗优势植物即可。
 5. 种子放入种植棉块前,可先用刀子把孔穴中间位置划开宽度约1CM,深度约1CM的穴槽,再把种子放进种植块深处,盖上育苗罩,开启补光灯,有利于种子更好的生根发芽。
 6. 可以使用移栽法,找一个可密封的盒子,把种子夹在2张湿湿的厚纸巾中间,避光放置2天后(期间如见干可适当喷湿)再用镊子移栽萌芽的苗,注意不要伤到初生根系,随后移栽到开好穴槽(宽度1CM,深度1CM)的种植块中间即可。此时可直接开启补光灯,不需育苗罩。
 7. 请保持观察种子初期萌芽情况,缺少光照以及没有及时撤掉育苗罩,都可能导致植物徒长。种子萌芽后及时撤掉育苗罩。
 8. 待小苗长出叶子后即可添加营养液,此后整个生长期均需保证供水为添加营养液的水,通常情况下,需每1-2周添加一次营养液,此前保持清水即可。
 9. 育苗期注意水位请保持6.5L刻度(水位),不可过高或者过低;过低,水分蒸发降低要及时补充,以免育苗块干燥影响种子发芽;过高,导致种子被水过多浸泡导致出现种子发霉的情况;待植物长大枝叶稍多根系发达时,可保持水位触碰到植物根系,即可正常生长。
 10. 如果小苗歪了,在种植棉块的边上挖一小块下来塞进穴孔内帮助扶正小苗。
 11. 灯板与植物的距离要保持在10厘米左右,以免烫伤植物枝叶。
 12. 种植枝叶比较茂盛的植株建议间隔种植,这样更利植物健康生长,空出的孔位盖上盖子以免水箱见光长青苔而影响植物根系生长。
 13. 植物花果期时,可一周换一次水添加新营养液,保持水中营养物质的充分,对植物开花结果有很大帮助。
 14. 植物有季节性、周期性、地域性,不同植物特性不一样,这跟温度、光照、大气湿度都有关系,种植适合当地当季生长的作物效果最好。
 15. 有些植物在花期时需要给植物授粉,室内种植可用同一支棉签或细毛笔轻擦不同植株上的花朵,使其交叉授粉效果更好。
 16. 睡眠时若觉得灯光影响睡眠,可关闭补光,10小时后会启动补光,10小时后会自动启动补光,不可关闭电源键,否则无法自动启动。
 17. 在气温高环境下种植,因为水分蒸发比较快,营养液浓度会偏高,建议7-15天换一次水即可。
 18. 种植过程中如有死株等不良生长的植株应及时去掉,以免根系腐烂、细菌滋生影响其他植物生长,如果已出现烂根现象,建议清洗水箱并消毒,以免影响下次种植。
1. When the pump is used for the first time, it is normal that there will be abnormal sound when the pump is working without water or when the pump is started for the first time after adding water, because the air in the pump is not discharged. The abnormal sound will disappear after 3-5 minutes of continuous working or several times of restarting the pump button.
 2. It is recommended to keep the water clean. Impurities in the water will affect the operation of the water pump. If the water pump has noise or does not work after a long period of use, take out the water pump and remove the filter cover to check whether there is any jamming inside, so as not to affect the normal operation.
 3. The seeds can be soaked in clean water for about 6 hours in advance, and then put into the bottom of the hole of the fully soaked planting sponge, and turn on the fill light.
 4. In general, it is recommended to put 2 seeds into each planting block. During the seedling period, the plants with good growth can be reserved. Those with poor growth can be gently pulled out or cut off with scissors. It is recommended that reserved one dominant plant.
 5. Before the seeds are put into the planting block, first use a knife to cut a hole about 1cm wide and 1cm deep in the middle of the hole, and then put the seeds into the depth of the planting block, cover the seedling cover and turn on the light lamp, which is conducive to the better rooting and germination of the seeds.
 6. Transplanting method can be used. Find a sealed box, put the seeds in the middle of two soaked thick paper towels, keep them away from light for two days (spray them properly if they are dry during the period), and then transplant the sprouting seedlings with tweezers. Pay attention not to damage the primary roots, and then transplant them to the middle of the planting block with a good hole groove (1cm in width and 1cm in depth). At this time, the fill light can be turned on directly without a seedling cover.
 7. Please keep observing the initial germination of seeds. The lack of light and the failure to remove the seedling cover in time may lead to plant overgrowth. Remove the seedling cover in time after the seeds germinate.
 8. The nutrient solution can be added after the seedlings grow leaves. After that, the water supply for the whole growth period should be guaranteed to be the water added with nutrient solution. Generally, the nutrient solution should be added every 1-2 weeks, and the clear water should be kept before.
 9. During the seedling period, please keep the water level at 6.5L scale (water level), not too high or too low; if the water level is too low, it should be supplemented in time to prevent the seedling block from drying and affecting the seed germination; if the water level is too high, the seed will be soaked in too much water, resulting in the mildew of the seed; when the plant has a little more branches and leaves, and the root system is developed, the liquid level can be maintained to touch the plant root system, and then it can grow normally.
 10. If the seedling is crooked, pick a small piece on the edge of the planting block and insert it into the hole to help straighten the seedling.
 11. Keep the distance between lamp board and plant at about 10 cm to avoid scalding plant branches and leaves.
 12. It is suggested to plant the plants with luxuriant branches and leaves at intervals, which is more conducive to the healthy growth of plants. Cover the empty hole to avoid the water tank from growing moss and affecting the growth of plant roots.
 13. During the flowering and fruiting period, the water can be changed once a week to add new nutrient solution, so as to keep sufficient nutrients in the water, which is of great help to the flowering and fruiting of plants.
 14. Plants are seasonal, periodic and regional. The characteristics of different plants are different, which are related to temperature, light and atmospheric humidity. Planting crops suitable for local growth in the current season is the best.
 15. Some plants need to pollinate at flowering stage. For indoor planting, the same cotton swab or fine brush can be used to wipe the flowers on different plants to make the cross pollination effect better.
 16. If you feel that the light affects your sleep, you can turn off the fill light. After 10 hours, the fill light will start automatically. Do not turn off the power button, otherwise it will not start automatically.
 17. In the high temperature environment, because the water evaporation is faster, the nutrient solution concentration will be higher. It is recommended to change the water once every 7-15 days.
 18. In the process of planting, if there are dead plants and other bad growth plants, they should be removed in time to avoid root erosion and bacterial breeding affecting the growth of other plants. If there is rotten root, it is recommended to clean the water tank and disinfect it to avoid affecting the next planting.

注意事项、合格证

Notice and Certificate

注意事项

- 1: 请使用电源适配器: 输入电压110V-240V, 输出电压12V, 电流3A。
- 2: 种植过程中保持灯板与植株的距离为10CM。
- 3: 请按营养液瓶身上方的调配方式配置种植液体。
- 4: 灯板在开灯起循环工作16小时停8小时, 风扇和水泵默认循环工作30分钟停30分钟。
- 5: 睡眠功能: 仅关灯不关闭电源, 灯会在10小时后自动开启

- ① 严禁带电组装设备。
- ② 严禁灯板涉水。
- ③ 严禁私自拆卸改装。
- ④ 注意保持水箱清洁。
- ⑤ 注意植物根系缠绕水泵可修剪根系清理水泵。
- ⑥ 注意植株枝叶勿伸入风扇位。
- ⑦ 不可水箱没有水开启水泵, 加水后首次使用水泵会有空抽噪音, 重启几次或过几分钟噪音可消除。

Matters needing attention

- 1: Please use the power adapter: input voltage 110V-240V, output voltage 12V, current 3A.
- 2: During planting, please keep the distance between the lamp board and the plant is 10cm.
- 3: Please configure the planting liquid according to the preparation method of the nutrient liquid bottle.
- 4: When the light board is on, it will cycle for 16 hours and then stop for 8 hours. The fan and pump cycle by default for 30 minutes, then stop for 30 minutes.
- 5: Sleep Function: Only turn off the light and don't turn off the power. The light will turn on automatically after 10 hours

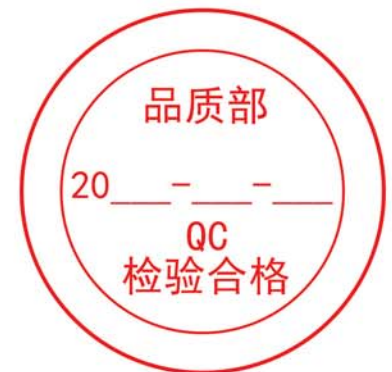
- ① It is forbidden to assemble the equipment when it is electrified.
- ② The light board is strictly prohibited from wading.
- ③ It is strictly forbidden to disassemble and modify without permission.
- ④ Pay attention to keep the water tank clean.
- ⑤ Pay attention to whether the plant roots are entangled with the water pump, and prune the root system to clean the water pump.
- ⑥ Pay attention to the branches and leaves of the plant and do not put them into the fan position.
- ⑦ Do not start the water pump when there is no water in the water tank. After adding water, the pump will have time to pump noise when it is used for the first time, and the noise can be eliminated after restarting several times or several minutes.

产品信息

产品型号: Z206

产地: 中国 广东

本册子最终解释权归本公司为准



如何配置营养液 (可选配)

How to configure nutrient solution

营养液 NUTRIENT SOLUTION

营养液非标配产品, 仅供参考

NUTRIENT SOLUTION IS NOT STANDARD PRODUCT, FOR REFERENCE ONLY

适用于适用于蔬菜/绿植/瓜果等

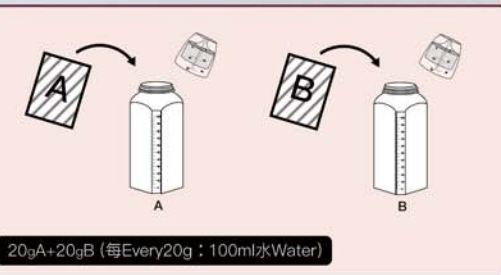
SUITABLE FOR VEGETABLES/GREEN PLANTS/FRUITS AND SO ON

A/B FERTILIZER REFILL PACK

A/B肥补充装

当A/B瓶内肥料使用完之后, 可以添加A/B肥补充装, 分别倒入相应的营养液瓶中, 装满纯净水, 摇动瓶子, 混合成营养液, 使用方法见表格。

After the nutrient solution in the bottle is completely used up, place the Solid Nutrient Refill Pack into the corresponding bottles. Add full water and shake bottles to fully mix nutrient solutions, Pls refer to the <Plant Food> use method.



Ratio of the water/兑水配比

水 (Water)	配比 (Mixture Ratio)
1L	5ml A+5ml B
2L	10ml A+10ml B
3L	15ml A+15ml B
4L	20ml A+20ml B
5L	25ml A+25ml B
6L	30ml A+30ml B

注意事项:

1. 营养颗粒在未开封的瓶子中置于温和不见光的环境下的储存寿命为2年。
2. 加水配制成营养液后, 在不暴露于阳光下储存期为5个月。
3. 如果有细微的悬浮物, 这是正常现象。
4. 存放于阴凉处, 避免宠物与儿童误食。

Notice:

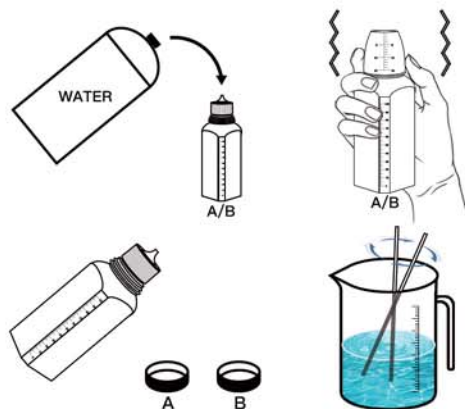
1. Nutrient particles have storage life of 2 years in unopened bottles if stored at the ambient temperature without exposure to sunlight.
2. Well-mixed nutrient solution prepared by adding water have storage life of 5 months without exposure to sunlight.
3. If there is precipitation, it's a normal phenomenon.
4. Keep it beyond the reach of children and pets.

配置营养液:

1. 将含有固体营养颗粒的A、B瓶分别装满纯净水, 并摇晃均匀。
2. 使用瓶盖作为量杯, 在每1L水中加入A、B营养液各5ML。

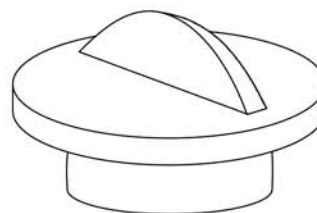
Configure nutrient solution:

1. Fulfill the bottle containing A and B solid nutrient particles with purified water, and shake bottles to fully mix the content.
2. Use the cap of the bottle as a measure, Add 5ml A and B nutrient solution into each 1L water.



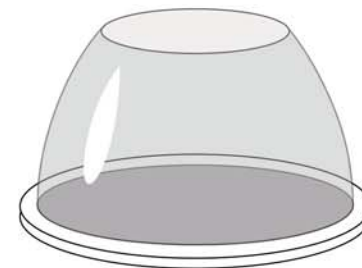
如何防止蚊虫侵蚀

How to prevent mosquito erosion



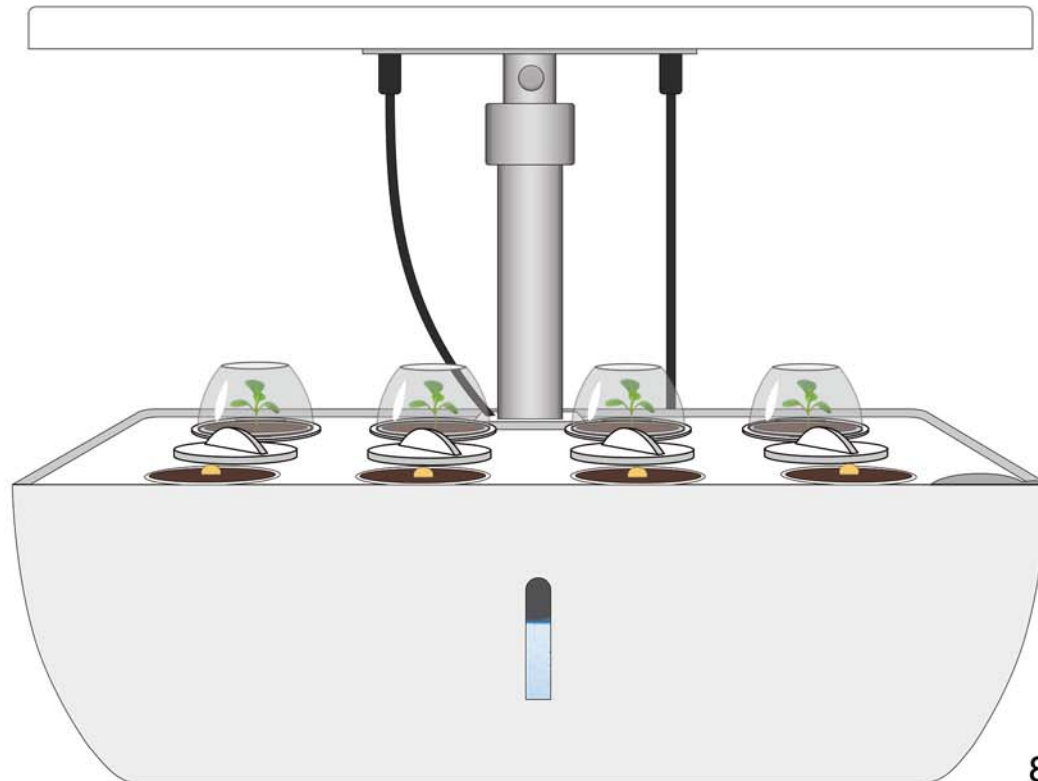
在植物生长过密时不需要种植太多植物
这时就可以将孔盖盖住育苗孔
防止虫害进入的同时 防止水箱绿藻生长

When the plants grow too dense, if it is not necessary to plant too many plants, the hole cover can be used to cover the seedling hole, which can not only prevent insects from entering, but also prevent the growth of green algae in the water tank.



育苗罩可以有效的给种子萌芽初期创造
保温、保湿、易于生根的环境,
并保护初期幼苗防止虫害侵蚀

Seedling cover can effectively create a heat preservation, moisture preservation and easy rooting environment for seeds at the initial stage of germination, and protect the early seedlings from insect damage.



我们种出的菜 0农残 放心食用

We grow vegetables without pesticide residues, which can be safely eaten

使用种植机种植的蔬菜送检报告

Inspection report of vegetables planted by planting machine





检测

检测报告

第 1 页共 2 页

报告编号: A2200219733101001C
委托单位: 深圳 园艺有限公司
地址: 深圳市坪山新区

样品信息:
 样品名称: 生菜
 CTI 样品编号: QM15926001
 样品状态: 完好
 样品数量: 500 克
 生产日期: 2020 年 7 月
 批号: 20200701
 生产商: 深圳 园艺有限公司
 生产商地址: 深圳市坪山新区
 样品接收日期: 2020 年 08 月 12 日
 样品检测日期: 2020 年 08 月 12 日~2020 年 08 月 25 日

检测项目: 敌百虫, 倍硫磷, 敌敌畏, 克百威, 对硫磷等 15 项
检测结果: 请参见下页。
检测结论: 经检验, 该产品以下项目符合 GB 2763-2019《食品安全国家标准 食品中农药最大残留限量》的规定要求。


编制: 

审核: 

批准:  日期: 2020 年 08 月 25 日

青岛市 检测技术有限公司 崂山区高昌路 7 号 2 号楼 山东省青岛市崂山区高昌路 7 号 厂区 3 号楼

Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com



检测股份

LCS Testing Lab

股票代码: 871117


TEST REPORT

Report No.: LCS200824089AR
Date: 2020.08.29
Page 1 of 4

Applicant: Plastic Co., Ltd
Address: city 4th Road, Kengzi street, PingShan district, Shenzhen
Report on the submitted samples said to be:
Sample Name: HYDROPONIC FERTILIZER
Trade Mark: N/A
Labeled Age Grading: Not stated
Requested Age Grading: N/A
Age Group Applied in Testing: N/A
Style No.: N/A
Testing Period: August 26, 2020 ~ August 29, 2020
Results: Please refer to next page(s).

TEST REQUEST	CONCLUSION
A ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - ASTM F963-17: Toxic Elements Test	Pass

Signed for and on behalf of LCS



Daniel

Shenzhen LCS Compliance Testing Laboratory Ltd.
Hotline: 4207-886-986 www.LCS-cert.com
Email: verification@lcs-cert.com

Add: F&G, 23/F, Technology Building, Quanzhi Science and Technology Innovation Park, Industrial Building, Maozhoushan Industrial Park, Houting, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

什么是无土栽培?

What is Soilless Culture?

无土栽培 (SOILLESS CULTURE) 是指不用土壤而用营养液或固体基质加营养液栽培作物的方法。

Soilless Culture refers to the method of using nutrient solution or solid matrix plus nutrient solution instead of soil to cultivate crops.



水培也叫“水耕”，我们的智能水培/水耕种植机，是无土栽培的主要类型之一。我们的智能种植机，是用优质种植块给植株定植以后，再用营养液进行培育的栽培方法。此方法可人工创造良好的根系环境，以取代土壤环境。有节水、省肥、优产、清洁卫生无污染、省工省力、易于管理、避免连作障碍等优点。

无土栽培由于摆脱了土壤栽培的限制，使它的应用范围广泛，主要应用于蔬菜栽培、花卉栽培、果木栽培等。在室内阳光缺失、无土壤的环境，我们的智能种植机通过仿生态种植系统，综合无土栽培模式，种植蔬菜和花卉等。

Soilless Culture is also called "hydroponics". Our intelligent Soilless Culture / hydroponics planting machine is one of the main types of soilless cultivation. Our intelligent planting machine is a cultivation method that uses high-quality planting blocks to plant and then uses nutrient solution for cultivation. This method can be used artificially to create a good root environment. Thus replacing the soil environment. It has many advantages, such as water-saving, fertilizer saving, high yield, clean and sanitary pollution-free, labor-saving, easy management, avoiding continuous cropping obstacles and so on.

Because Soilless Culture can get rid of the limitation of soil culture conditions, so its application scope becomes more extensive, mainly used in vegetable cultivation, flower cultivation, fruit tree cultivation and so on. In the indoor environment of lack of sunlight and soil, our intelligent planter can plant vegetables and flowers by imitating ecological planting system and combining soilless cultivation mode.

为什么选择无土栽培?

Why choose Soilless Culture?

生长在自然界的植物会面临 7 大问题



- | | | | | | | |
|--|--|---|---|--|--|---|
| 1.昼夜温差大，四季更迭导致恒温不定
The temperature difference between day and night is large, and the four seasons change, resulting in constant temperature. | 2.雨水不及时，植物旱的旱死涝的涝死
The rain is not timely, which leads to the drought and waterlogging of plants. | 3.植物之间竞争生存空间，营养不平衡
The competition of living space among plants leads to the imbalance of nutrition. | 4.大风等自然灾害影响植物生长方向
Natural disasters such as strong wind can affect the growth direction of plants. | 5.真菌、细菌等虫害啃食植物
Pests such as fungi and bacteria can gnaw on plants. | 6.土壤内含有重金属等对人体有害物质
The soil contains harmful substances such as heavy metals. | 7.水污染严重，无法保证植物所需营养
Water pollution is so serious that it can not guarantee the nutrition needed by plants. |
|--|--|---|---|--|--|---|

而这些问题 智能种植机都能解决

These problems can be solved by intelligent planting machine



- 智能阳光仿生补光灯,根据种植所需选择模式后,自动循环补光16小时,自动休眠8小时,关闭灯板10小时后自动开启。
1. Intelligent sunlight bionic fill light can be selected according to the needs of planting. After the mode is selected, it can automatically cycle for 16 hours, automatically sleep for 8 hours, and automatically turn on after 10 hours of closing the light board.
- 大容量6.5升储水箱,可保持15-30天给植物供水。
2. Large capacity 6.5l water storage tank, which can supply water to plants for 15 - 30 days
- 内置无线芯片,可用手机操控种植机切换模式 (仅限WIFI版)。
3. built in wireless chip, can operate the planter switching mode by mobile phone (WiFi version only)
- 种植孔疏密有致,不会出现植物因掠夺阳光氧气等资源,而导致植物生长参差不齐。
4. The sparse and dense positions of planting holes are arranged reasonably, so the uneven growth of plants will not occur due to the plunder of sunlight, oxygen and other resources.
- 灯板镶嵌智能风扇,为植物通风、授粉,工作30分钟,休眠30分钟,自动循环,如关闭风扇10小时后会自动开启。
5. The lamp board is inlaid with intelligent fan, so it can ventilate and pollinate plants. Work for 30 minutes, sleep for 30 minutes, such an automatic cycle. If you turn off the fan, it will turn on automatically after 10 hours.
- 室内养殖,不易产生飞虫细菌等虫害。
6. Indoor breeding, so it is not easy to produce insects, bacteria and other pests.
- 采用黑绵土基质,不会接触外界污染物。
7. Black clay matrix is adopted, so it will not contact with external pollutants.
- 水中添加植物营养液,包含植物所需养分。
8. Add plant nutrient solution to water, which contains nutrients needed by plants.

植物/蔬果生长形成的原因

Reasons for the growth of plants/fruits and vegetables

光合作用

绿色植物通过叶绿体，利用光能，把二氧化碳和水转化成储存能量的有机物，并释放出氧的过程。

光有效辐射

以电磁波形式或粒子(光子)形式传播的能量,这种能量及其传播过程称为光辐射,太阳辐射中对植物光合作用有效的光谱成分称为光有效辐射(PAR, PHOTOSYNTHETICALLY ACTIVE RADIATION),波长范围380~710纳米,与可见光基本重合,光有效辐射平均约占太阳总辐射的50%,它是形成生物量的基本能源,直接影响着植物的生长、发育、产量和产品质量。

我们的智能种植机

灯板仅包含对植物光合作用有效的光谱,为植物全光谱LED灯,植物光合作用需要的光线波长在380~710NM纳米左右,其中380~520纳米蓝光和610~710纳米的红光对于光合作用贡献最大,红蓝组合的植物灯呈现粉红色。

智能种植机的花果类模式FLOWER&FRUIT,色温偏粉红,红光可以促进植物光合作用,发芽、开花、结果;促进花色素的形成;促进质体(包括叶绿体)的形成;促进叶绿体的合成。

智能种植机的叶菜类/观叶植物VEGETABLES模式,色温偏白蓝,蓝光对植物特别是茎的生长具有强烈的抑制作用(多肉/防徒长),有利于植物叶片生长,在植物的向光性起主要作用。

除了红蓝光,我们经过专业实验,还增加了对植物有影响的远红光。如果植物仅仅被深红光所照射,植物会感觉是在太阳光的直接照射下,从而正常地生长。而如果植物被远红光所照射,植物会感觉像是被另外一颗更高的植物遮挡住了太阳的直射光,因而该植物就会更加努力的生长以突破遮挡,也就是有助于植物长得更高。远红光在园艺照明应用中的另一个重要作用是通过照明来控制开花的周期,而不需要仅仅依赖于季节的影响,这对于观赏性花卉有着重要价值。

手动休眠模式:手动关灯/风扇/水泵10小时后,智能种植机会按照最后一次设定模式重新开启。

为了更符合植物的生长习性,当开启任意补光模式(花果类FLOWER&FRUIT/叶菜以及观叶植物VEGETABLES),智能补光16小时后,灯板自动关闭休眠8小时,并自动循环设置。

CAUSES OF PLANT / VEGETABLE GROWTH

Photosynthesis: the process in which green plants use light energy through chloroplasts, thus converting carbon dioxide and water into energy storing organic matter and releasing oxygen.

Photosynthetically Active Radiation: energy transmitted in the form of electromagnetic waves or particles (photons). This energy and its propagation process are called light radiation. In the solar radiation, the spectral component that is effective for photosynthesis of plants is called photosynthetically active radiation (PAR). Its wavelength range is 380~710nm, which basically coincides with visible light. The average photosynthetically active radiation accounts for about 50% of the total solar radiation. It is the basic energy to form biomass, so it directly affects the growth, development, yield and product quality of plants.

Our intelligent planter: The lamp board only contains the spectrum which is effective for plant photosynthesis, and is used as a full spectrum LED lamp. The wavelength of light needed for plant photosynthesis is about 380 ~ 710nm, among which 380 ~ 520 nm blue light and 610 ~ 710 nm red light contribute the most to photosynthesis, while the red blue combination of plant lamps is pink.

The **flower&fruit** model of intelligent planting machine is flower & fruit, and the color temperature is pink and red. Red light can promote photosynthesis, germination, flowering and Fruiting of plants; promote the formation of anthocyanins; promote the formation of plastids (including chloroplasts); promote the synthesis of chloroplasts.

The **vegetable/foilage** plant vegetables mode of intelligent planting machine has white and blue color temperature. Blue light has a strong inhibitory effect on the growth of plants, especially on stems (fleshy / overgrown). Therefore, blue light is beneficial to the growth of plant leaves and plays a major role in the phototropism of plants.

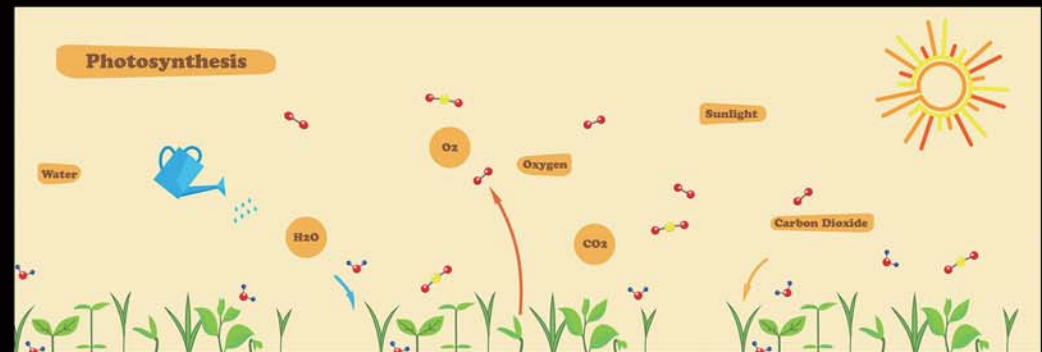
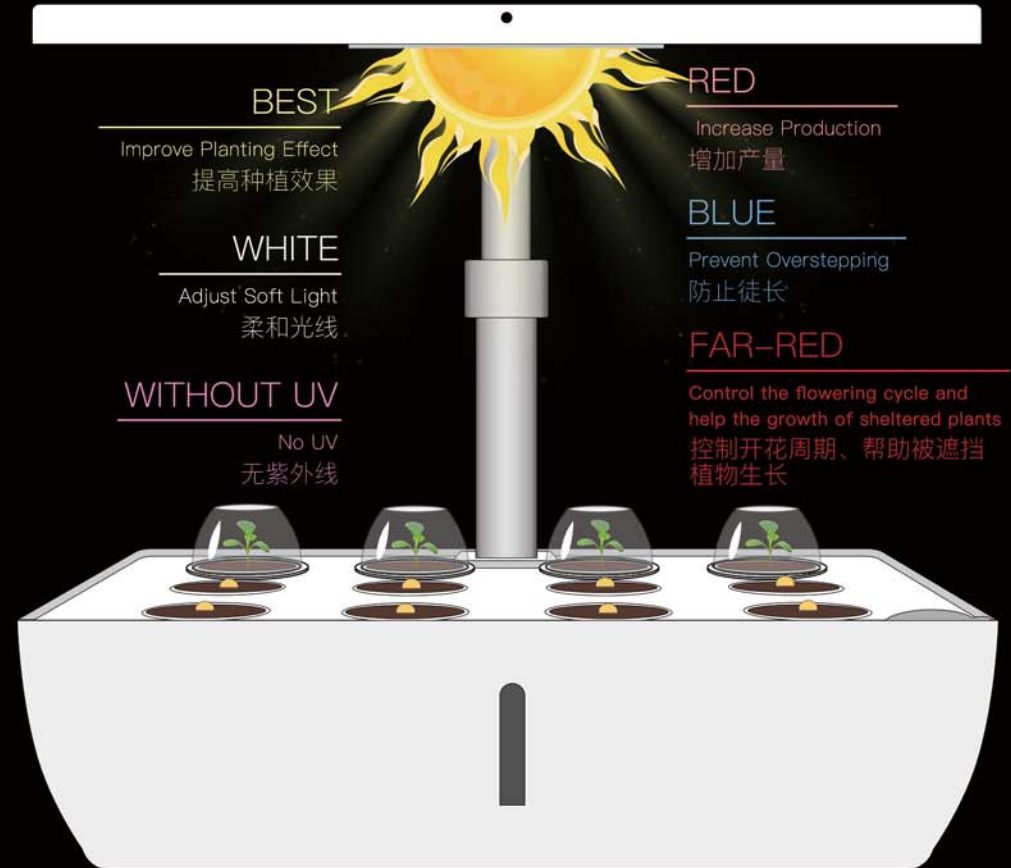
After professional experiments, in addition to red and blue light, we also added **far red light** which has an impact on plants. If the plant is only exposed to deep red light, then the plant will feel under the direct sunlight, so that it can grow normally. If the plant is exposed to far red light, the plant will feel as if it is blocked from the direct sunlight by another higher plant, so the plant will work harder to break through the barrier and help the plant grow higher. In the application of horticultural lighting, another important role of far red light is that the flowering cycle can be controlled by lighting, and it does not need to rely on the influence of seasons, which has important value for ornamental flowers.

Manual Sleep Mode: After turning off the light/fan/water pump manually for 10 hours, the intelligent planting machine will restart according to the last setting mode.

In order to better conform to the growth habits of plants, when any light supplement mode (flower & fruit/leafy vegetables and foliage plants vegetables) is turned on for 16 hours, the light panel will automatically turn off and sleep for 8 hours, and then automatically cycle the relevant settings.

无土栽培种植仿生态系统

Soilless Cultivation and Planting Imitation Ecosystem Bionic ecosystem of soilless cultivation



触控面板介绍

Introduction to Touch Panel

熄灯时间误差存在1~5分钟

风扇/水泵开关 Fan & Water

工作30分钟以后, 自动休眠30分钟并自动循环启停, 手动关闭风扇/水泵10小时后会智能重新开启, 长按三秒钟, 风扇可独立关闭并不会重启.

After working for 30 minutes, it will automatically sleep for 30 minutes, and then the cycle will start or stop automatically. After manually turning off the fan/water pump for 10 hours, it will be turned on again intelligently.

电源开关/无线连接 Power switch / wireless connection

单击开关键开机, 开启风扇/水泵, 根据需要设置补光模式带断电记忆功能, 突然断电后种植机智能记忆锁定, 通电后仍按设定模式重新工作. (重新补光16小时, 风扇/水泵智能开启.) 然后轻触开关键三秒即可进入无线配置(仅限WIFI版).

Click the on key to start the machine, turn on the fan / water pump, set the light compensation mode according to the needs, with power-off memory function. After a sudden power failure, the intelligent memory of the planter is locked, and the planter still works according to the set mode after power on. (after 16 hours of light compensation, the fan / water pump turns on intelligently.) then touch the on key for three seconds to enter the wireless configuration (WiFi version only).

Vegetables 蔬菜补光模式

种植叶菜类、观叶植物选择此模式, 补光16小时, 休眠8小时电源开启时, 手动关闭补光模式后, 10小时后会智能重新开启, 仍按设定模式重新工作, 重新补光16小时, 休眠8小时.

If this mode is selected for leafy vegetables and foliage plants, it will fill light for 16 hours and sleep for 8 hours. When the power is turned on, the light compensation mode will be turned off manually, and it will be turned on again after 10 hours. It still works again according to the set mode, that is, light compensation for 16 hours and sleep for 8 hours.

Flowers & fruits 花卉和瓜果补光模式

种植瓜果类、观花植物选择此模式, 补光16小时, 休眠8小时电源开启时, 手动关闭补光模式后, 10小时后会智能重新开启, 仍按设定模式重新工作, 重新补光16小时, 休眠8小时.

If this mode is selected for planting melons, fruits and ornamental plants, it will fill light for 16 hours and sleep for 8 hours. When the power is turned on, the light compensation mode will be turned off manually, and it will be turned on again after 10 hours. It still works again according to the set mode, that is, light compensation for 16 hours and sleep for 8 hours.



蔬菜模式 Vegetables



花卉和瓜果模式 Flowers & fruits



无线APP连接(仅限WiFi版)

Wireless app connection (WiFi version only)

Z206使用WiFi模式控制:

1. 下载涂鸦智能APP (Tuya Smart) .



下载APP
Download app



涂鸦智能
Tuya Smart

2. 种植机通电并长按面板上开机键约3秒, 绿灯熄灭后进入慢闪即可准备连接APP.

3. 首次连接需打开手机连接WiFi, 然后进入APP, 点击右上角+按钮, 找到自动发现, 并点击自动搜索, 搜索Z206设备.

4. 发现Z206设备并给种植机设置配网, 根据提示连接WiFi, 灯板提示灯由慢闪变为快闪, 直到常亮, 表示连接成功, 此后可通过APP控制设备.

Z206 WiFi mode control:

1. Download Tuya smart app .

2. Power on the planter and press the power on button on the panel for about 3 seconds. After the green light goes out, enter the slow flash to prepare to connect the APP.

3. When using WiFi control device: open the mobile phone to connect WiFi, then enter app, click the + button in the upper right corner to find auto discovery, and click auto search to search z206 device.

4. Find the z206 device and set up the distribution network for the planter. Connect the WiFi according to the notice. The light board notice light changes from slow flashing to fast flashing until it is always on, indicating that the connection is successful. After that, the device can be controlled through app.

注意事项:

1.如搜索不到设备, 请断电重启设备, 尝试多次搜索.

2.手机和设备需保持在同一个WiFi下.

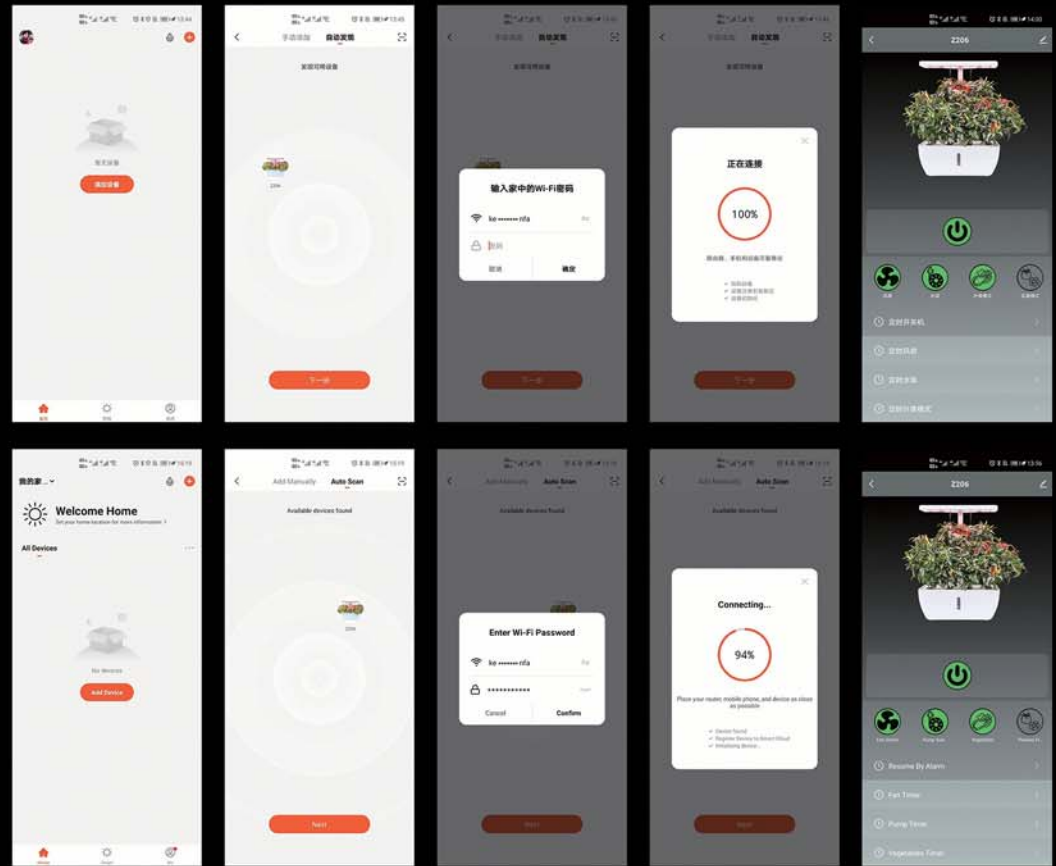
3.检查WiFi信号是否通畅.

Matters needing attention:

1. If you can't find the device, please power off and restart the device.

2. Mobile phone and device should be kept under the same WiFi.

3. Check whether the WiFi signal is unobstructed.



在面板操作:

1、长按产品风扇&水泵按键约2秒, 对应指示灯熄灭后变亮, 风扇即独立停止。(独立关闭, 10小时后不智能重启)

2、重新短按风扇&水泵按键, 关闭再开启就可以重新开启风扇。

3、短按风扇&水泵按键, 风扇和水泵休眠10小时后会自动开启。

APP操作:

1、轻触风扇按键, 即可开关风扇。(独立关闭, 10小时后不智能重启)

2、轻触水泵按键, 即可开关水泵。(独立关闭, 10小时后会智能重启)

In panel operation:

1. Press and hold the fan & water pump button for about 2 seconds, and the corresponding indicator light turns on after it goes out, and the fan stops independently. (independent shutdown, no intelligent restart after 10 hours).

2. Press the fan & water pump button again, turn off and turn on the fan again.

3. Short press the fan & water pump button, the fan and water pump will automatically turn on after 10 hours of sleep.

App operation:

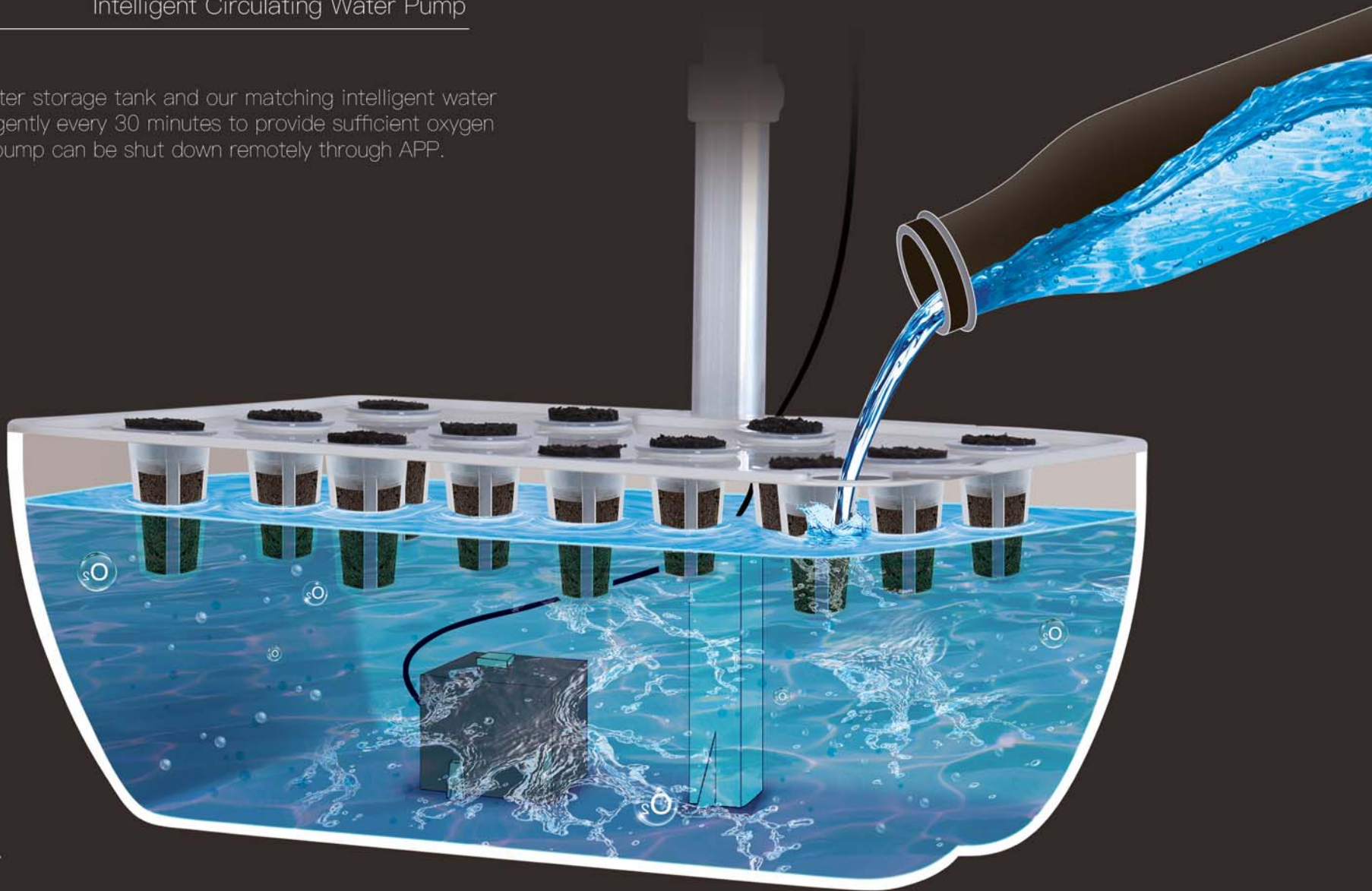
1. Touch the fan button to turn on and off the fan. (independent shutdown, no intelligent restart after 10 hours).

2. Tap the water pump button to switch on and off the water pump. (shut down independently and restart intelligently after 10 hours).

智能循环水泵

Intelligent Circulating Water Pump

The 6500ml large capacity water storage tank and our matching intelligent water pump can start and stop intelligently every 30 minutes to provide sufficient oxygen for plant roots, and the water pump can be shut down remotely through APP.



循环水泵

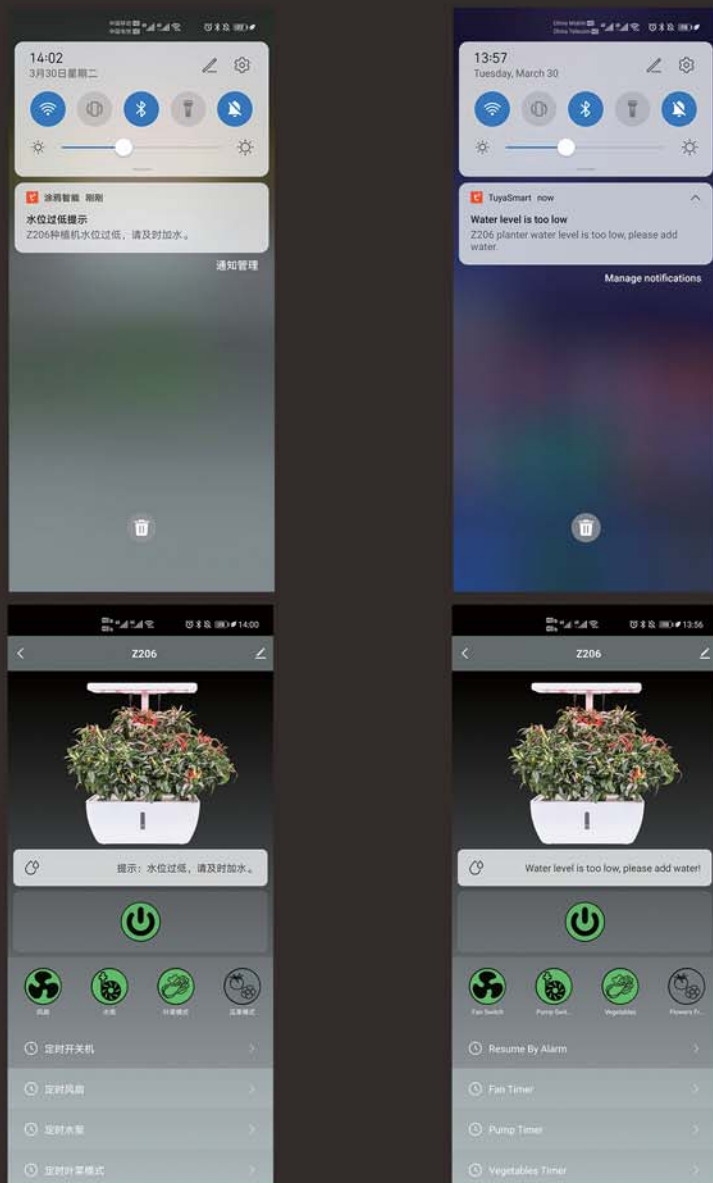
——6500ML大容量储水箱，我们搭配的智能水泵，每30分钟
智能循环启停为植物根系提供充足氧气。
(WIFI版：可通过APP远程关闭水泵)

低水位提醒(通配)

Water shortage alarm(general)

水箱水位过低时，同时手机后台会推送提醒信息。

When the water level of the water tank is too low, the background of the mobile phone will push a reminder message



水箱水位过低时，水泵/风扇提示灯会闪烁蓝光，此时联动水泵停止工作，加水后水泵会自动恢复工作。

When the water level of the water tank is too low, the water pump / fan indicator will flash blue light. At this time, the linkage water pump will stop working, and the water pump will automatically resume working after adding water.

