VIVOSUN

Designed by VIVOSUN in California.
Assembled in PRC.

Grow Tent Series

USER MANUAL

Love what you grow™

Welcome to **VIVOSUN**

Thank you for choosing VIVOSUN. We are committed to product quality and friendly customer service. If you have any questions or suggestions, please don't hesitate to contact us.
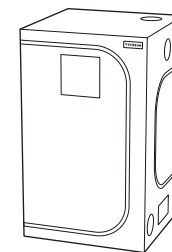
PRODUCTS INCLUDED IN THIS MANUAL:

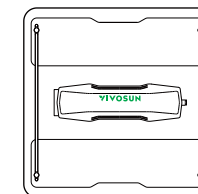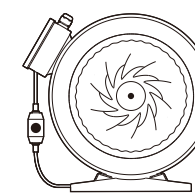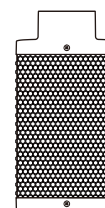| Product	SKU
Standard Grow Tent 4FTx4FT	WEB-304113-44NJ
VS4000 LED Grow Light	WEB-LED-400J
6-Inch 440 CFM Inline Duct Fan	WEB-306101S-6
6-Inch Carbon Filter	WEB-306143-0616
6-Inch 8 ft Ducting	WEB-306104-68J
6-Inch Clamps	WEB-306104-68J
7-Day Digital Timer	WEB-DT-001J
5 Gallon Grow Bags 5-Pack	WEB-311001-5x5NJ
Gardening Hand Pruner Pruning Shear	WEB-311003-4J
3 x 3 ft Elastic Trellis Netting	WEB-330703-44J
Digital Indoor Thermometer & Hygrometer	WEB-THM001J

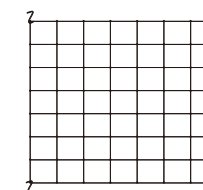# CONTENTS

PRODUCT CONTENTS
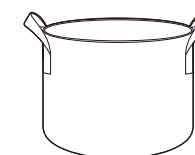

Grow Tent
x 1pc

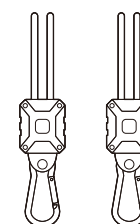VS Grow Light
x 1pc

Inline Fan
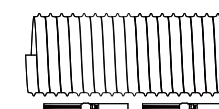x 1pc

Carbon Filter
x 1pc

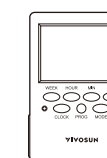Elastic Trellis Net
x 1pc

5 gal. Grow Bags
x 1pc

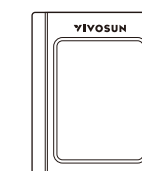Rope Hangers
x 2pcs

Ducting and Clamps
x 1set

7-day Digital Timer
x 1pc

Grow Room Glasses
x 1pc

Pruning Shears
x 1pc

Thermometer & Hygrometer
x 1pc

KEY FEATURES

1. High Light Reflectivity and Containment

Professional-grade canvas designed with 600D Oxford nylon fabric that prevents light leaks and an interior Mylar lining featuring our specialized "lychee" patterning that is more reflective than other patterns.

2. Ducting Openings

Multiple ducting openings with adjustable size suitable for different sizes of ductings with no leak of light.

3. Viewing Window

A large window with optional Velcro cover offers a clear view of your plants inside the tent without having to open it up.

4. Heavy-duty Frame

Thick metal poles and connectors provide a sturdy structure. The ceiling bars can hold up to 55lbs.
Note: All the devices must be distributed evenly on the ceilling bars.

5. Waterproof Floor Tray

A waterproof floor tray catches water, soil, and debris, preventing leaks.
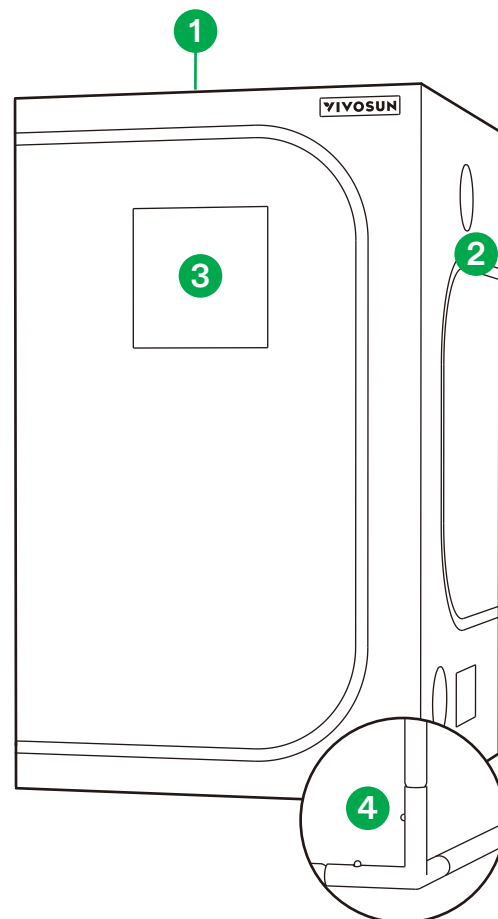
INSTALLATION

Frame Poles & Ceiling Bars

A 8 pcs.

B 4 pcs.

C 4 pcs.

E 1 pc.

F 2 pcs.

1 Tent Coat, 1 pc.

2 Floor Tray, 1 pc.

3 Filter Straps, 2 pcs.

4 Corner Supports, 8 pcs.
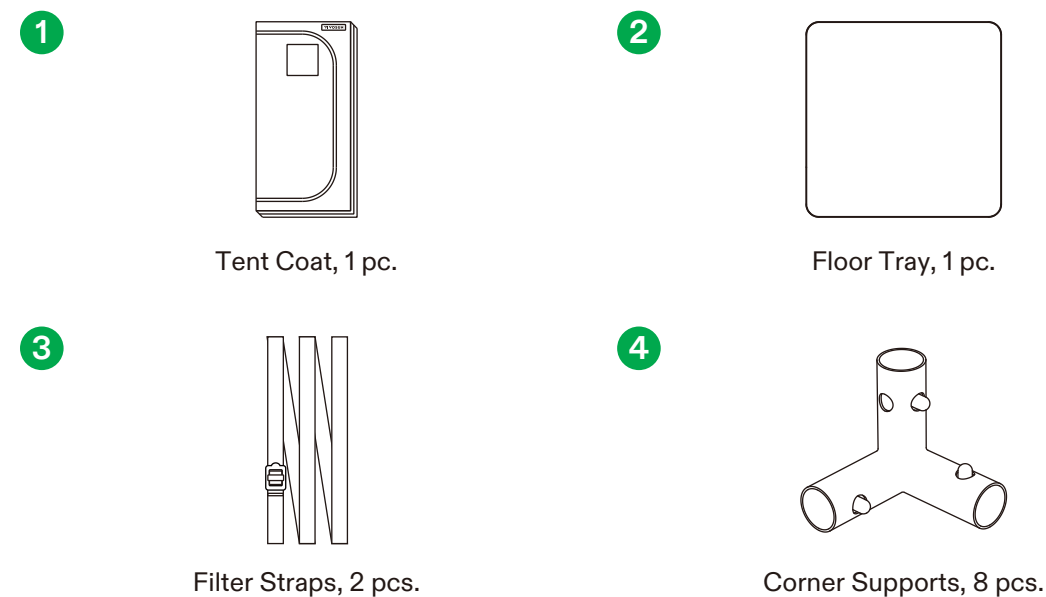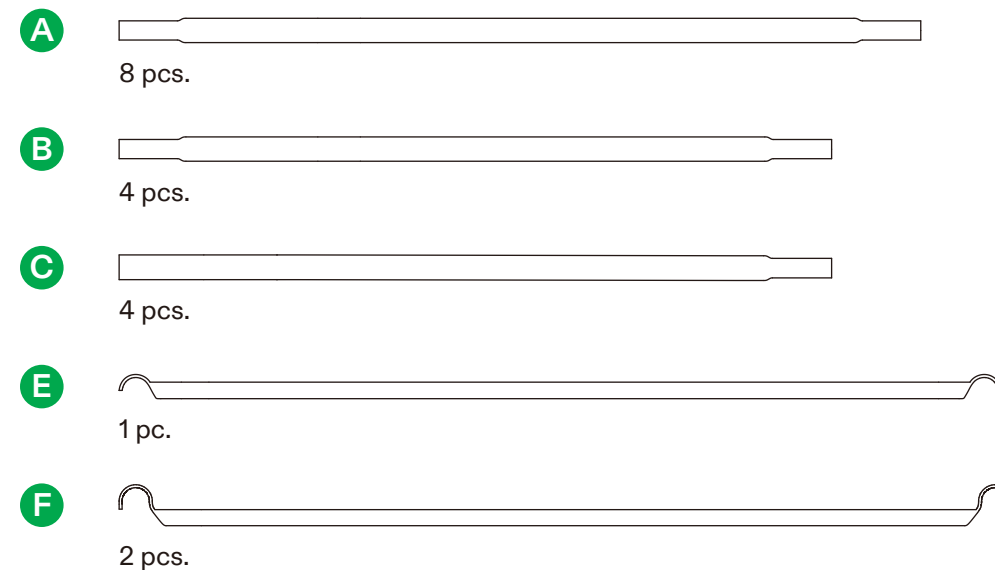
INSTALLATION

STEP 1   Connect four **Poles (A)** to four **Corner Supports (4)** to form base frame of the tent.
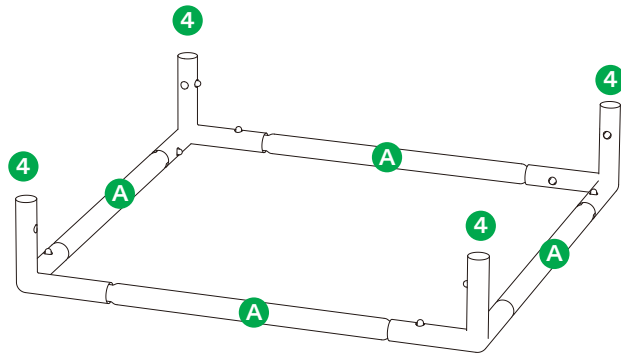
STEP 2   Connect four **Poles (B)** to the **Corner Supports (4)** of the tent base.
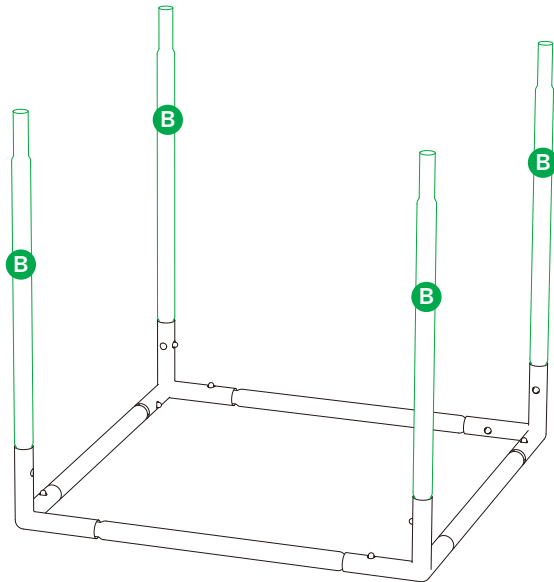
INSTALLATION

STEP 3   Connect four **Poles (C)** to the **Poles (B)**.
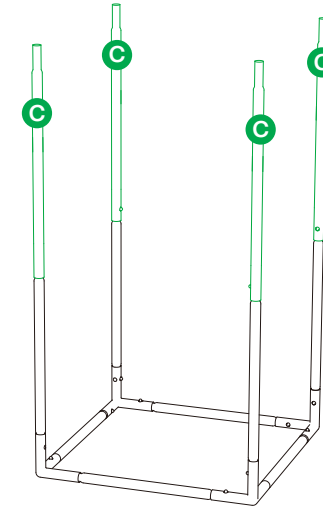
STEP 4   Connect the other four **Corner Supports (4)** to the **Poles (C)**.
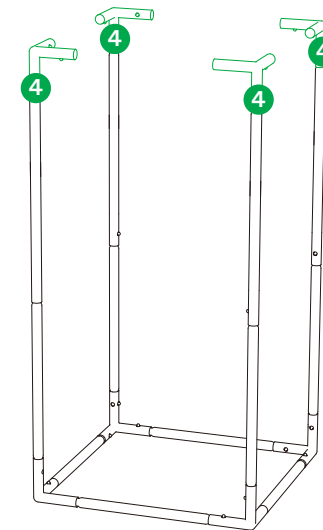
INSTALLATION

STEP 5   Connect the other four **Poles (A)** to the **Corner Supports (4)** to form the top frame of the tent.
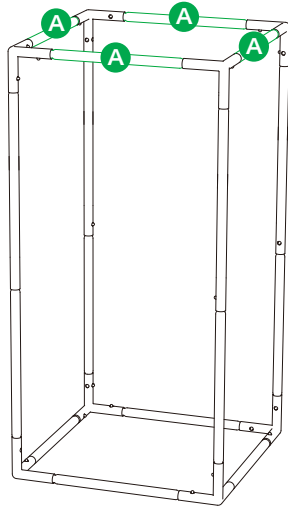
STEP 6   Unfold the **Tent Coat (1)** and put the base frame in the bottom of the **Tent Coat (1)**.
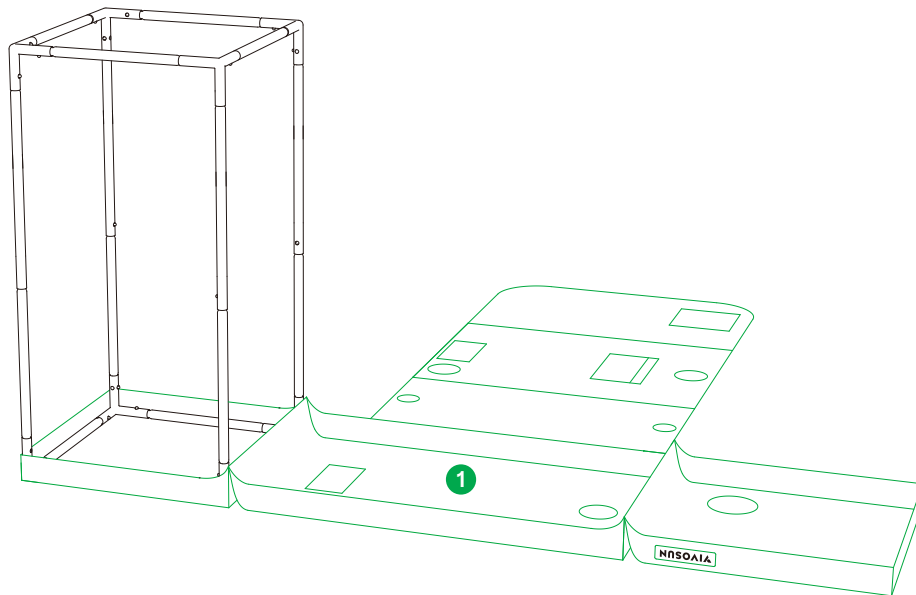
STEP 7   Pull the tent roof and cover on the top frame.
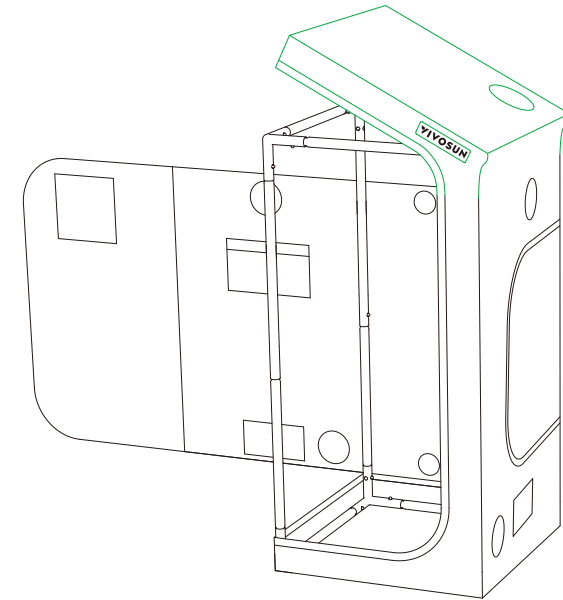
STEP 8   Put the **Ceiling Bars (E, F)** on the top frame for hanging devices.
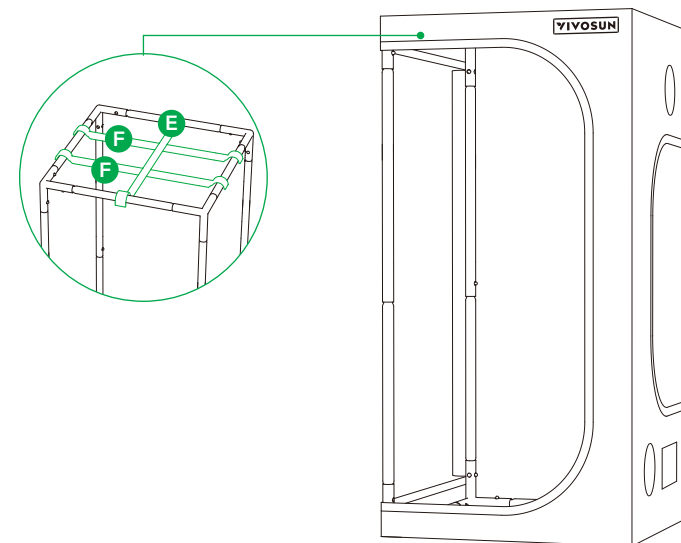
INSTALLATION

STEP 9   Place the **Floor Tray (2)** into the tent.
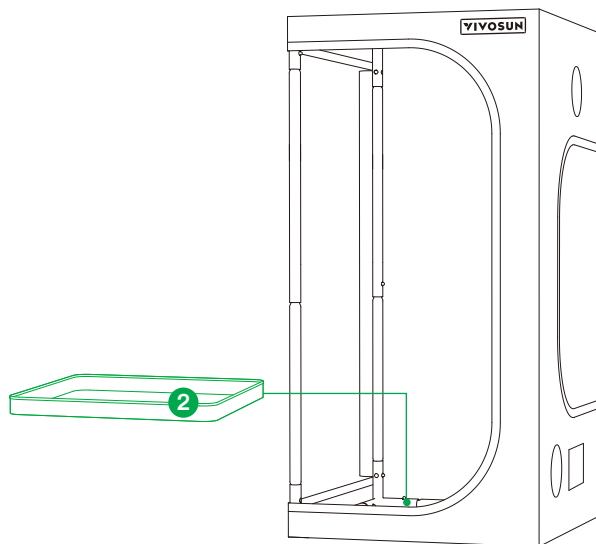
STEP 10   Pull the zippers to close the walls and door of the tent. VST-S448 is built with additional side doors.
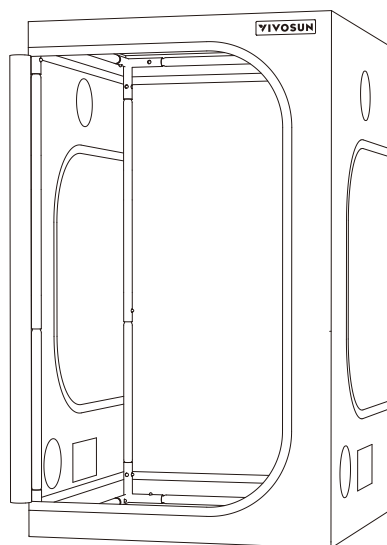
SPECIFICATIONS

Dimensions	48" x 48" x 80"	Weight	28.9 lbs.
Warranty	1 Year	Package Size	49.2" x 10.2" x 6.5"
Suggested Plant Count	6-8 plants in 3 gallon pots	Suggested Lighting	VS4000/4bar
Recommended	6" Inline Fan	Doors	(1) Large Front Door (2) Large Side Door
Vents	(2) 11.8" x 6.3" Pre-Filter Air Vents	Windows	(1) Large Front Window
Ducting Ports	(2) 4" Ducting Ports / (5) 8" Ducting Ports	Interior Material	Mylar 100% Reflective
Exterior Material	Oxford Fabric	Includes	(1) Floor Tray / (2) Filter Straps

KEY FEATURES

1. SAMSUNG LED Diodes

Powered by Samsung high-efficiency diodes designed to provide the perfect spectrum for growing plants
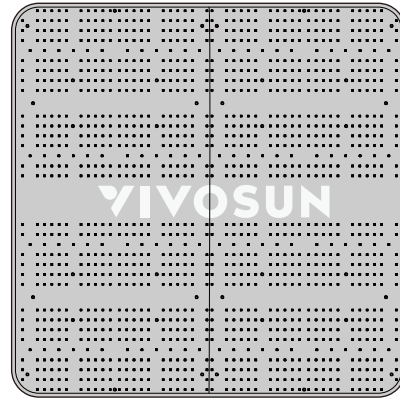
2. High Efficacy

High-quality diodes and power supply mean high PPE, up to 2.7 umol/J.

3. Dimming Control

0-100% light dimming for different growing stages (except VS1000E).

4. Full Spectrum & FR

380-780nm of full spectrum coverage with 450nm, 660nm and 730nm rich for photosynthesis.
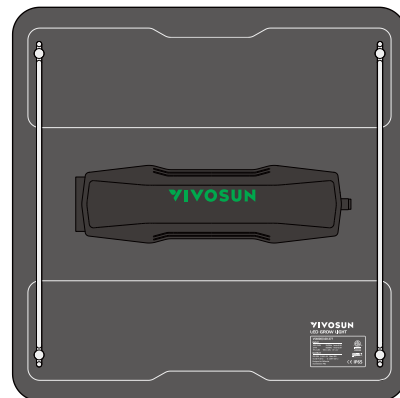
5. Multiple Lights Control

1 light can control up to 20 lights with RJ11 serial connection.

6. Certification

ETL, CE, FCC certifications and waterproof of IP65.

INSTALLATION

1
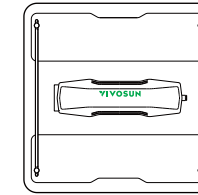
LED Grow Light
x 1pc

2
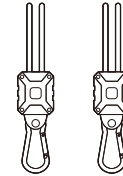
Rope Hanger
x 2pcs

3
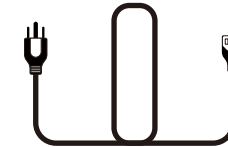
Power Cord
x 1pc

4
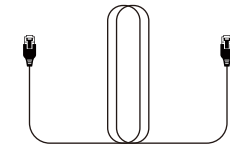
RJ11 Network Cable
x 2pcs

5

RJ11 3-Way Cable Splitter
x 1pc

6

Grow Room Glasses
x 1pc

INSTALLATION

1. Pass the rope hangers' carabiners through the hooks attached to the LED light fixture and then attach the other end of the rope hangers to the roof of the tent or the ceiling.
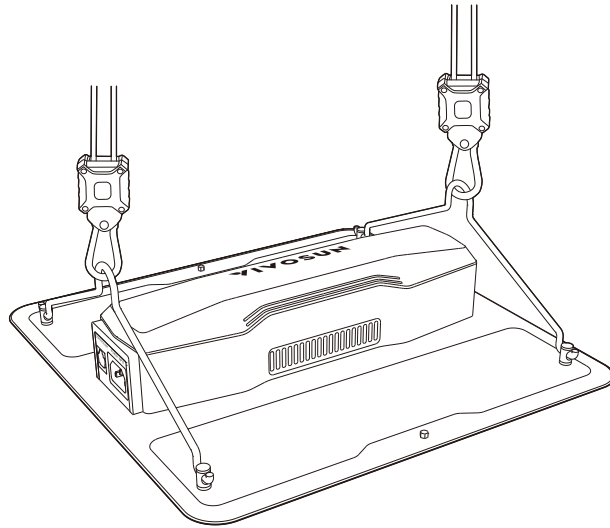
2. Unclip the hangers from the LED light fixture and hook them over the crossbar in your tent, and then reattach the light fixture to the hangers.
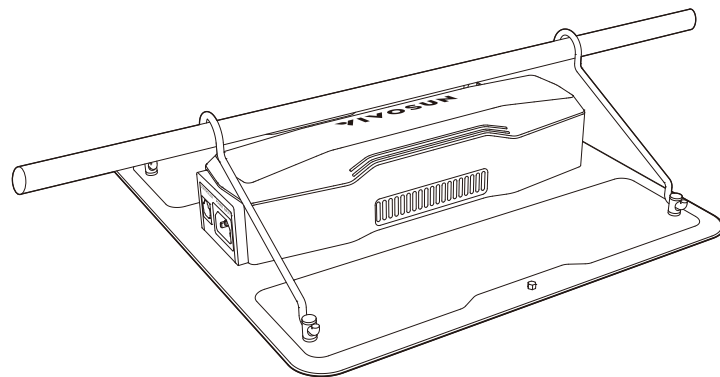
INSTALLATION

CONNECTING MULTIPLE LIGHTS

Controlled Light

Main Control Light
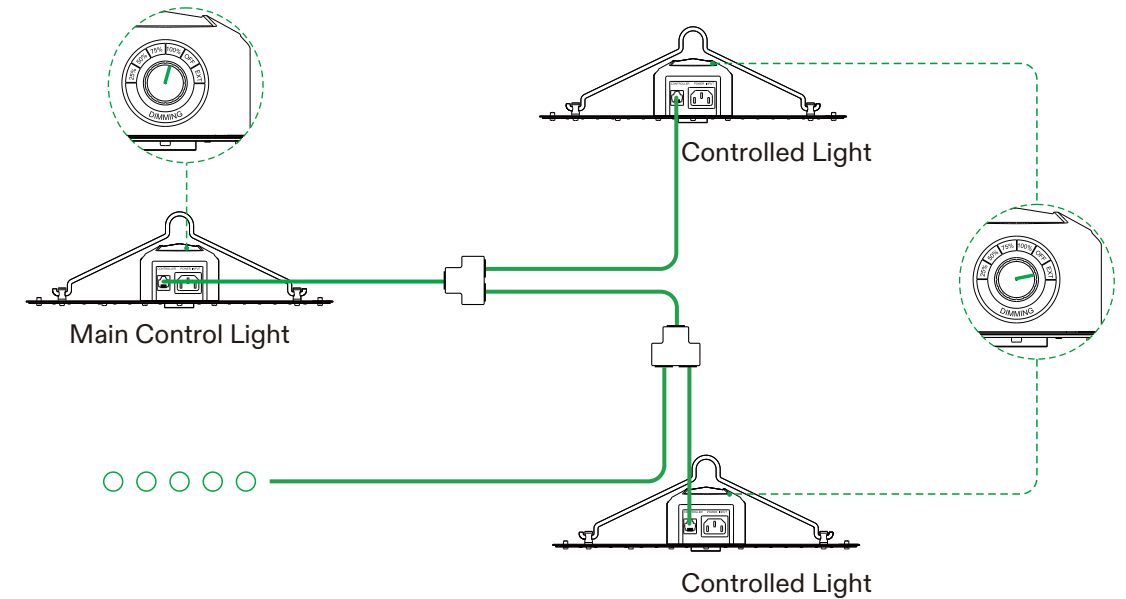
Controlled Light

Choose a light as the master Light (A) and use the RJ11 cables and cable splitter to connect other lights (B, C) as the controlled Lights as showed above. Turn the dimming knob to the "EXT" on the controlled light (B, C) and they will be controlled by the master light (A). A master light can control up to 20 lights.

Note: Ensure all the controlled lights turned to "EXT" and work normally. If connected to a timer, ensure the total power of all the lights (including the master light and controlled lights) conform the rated power of the timer.

SPECIFICATIONS

LED Source	**Samsung LM301D**	Frequency	**50-60Hz**
Input Voltage	**120-277V**	Input Power	**100W**
Power Factor	**>0.9**	Weight	**3.22 lbs.**
Dimensions	**11.8" x 11.8" x 2.36"**	Lifetime	**L90>50,000 hours**
Dimming	**25% / 50% / 75% / 100% / OFF / EXT**	Warranty	**5-Year Standard Warranty**
Spectrum	**Full spectrum: 380 - 780nm; rich 660nm and 730nm**		
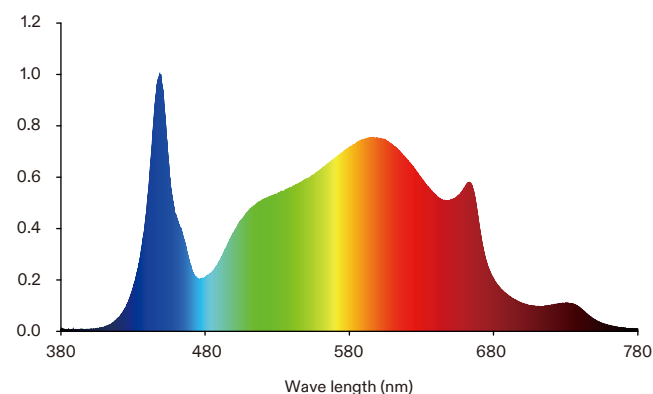
APPLICATION

SUGGESTED HANGING DISTANCE & SUGGESTED LIGHTING TIME

Stage	Distance		Time
	Inch (In.)	Centimeter (cm.)	
Germination	24-30	61-76	18 Hours ON
Seeding	24-30	61-76	16 Hours ON
Veg	18-24	46-61	18 Hours ON
Flower	12-18	30-46	12 Hours ON

Note: This suggestion is for reference only, and can be freely adjusted according to the actual situation.

Set the LED in a raised position and place the light further away from your plant to cover a wider area. Position the light at a lower power closer to your plants for less coverage area but a more eco-friendly way to grow.

INLINE DUCT FAN INSTALLATION DIRECTIONS

Our Inline Duct Fan is specially designed for easy installation, compatibility and efficiency.

- We designed the inflow and outflow openings to be the same size to eliminate the need for complicated ducting arrangements and installation.
- The impeller is aerodynamically designed to reduce vibration and noise while generating ample power.
- The Inline Duct Fan is lightweight enough to be easily installed by one person. It comes in three sizes, whichweigh between 8 lbs (3.6 kg) and 13 lbs (5.9 kg).
- All materials used meet RoHS (Restriction of Hazardous Substances) standards.
- Our Inline Duct Fan can be installed in a wide variety of venues, including hotels, grow rooms, supermarkets, storage areas and bathrooms.

The major components of our Inline Duct Fan are the housing (shel), impeller, motor, base and electrical junction box (connection box).

1. **Shell:** Made from high-quality galvanized steel, the shell is highly resistant to atmospheric corrosion.The highly efficient design lets air flow without impediment and facilitates installation.
2. **Impeller:** The uniquely shaped plastic impeller delivers an outstanding performance in combination with the shell. The result is strong wind, impressive energy efficiency and low noise levels.
3. **Motor:** The motor, which has been awarded CCC, CE and UL certification, is designed to save space, reduce noise and vibration and conserve energy.The motor features three speeds as well as an automatic reset function to protect against overheating.
4. **Junction box:** The electrical junction box, made from ABS and flame retardant components, is designed for safety and fire prevention.

INSTALLATION INSTRUCTIONS

Please install the inline fan as shown in installation diagrams.

1. When installing or transporting the inline fan, C X 53.33 cmald the blades or allow them to be deformed in any way.
2. Use a filter on the suction shaft to filter out oil ana oner particulate matter.
3. Make sure to leave an 18x18 mm (0.7x0.7") hole for easy inspection and maintenance when installing the inline fan on the ceiling.
4. The inline fan can be installed on the floor, ceiling, or wall. Please install it on a solid surface and never on anunstable surface such as gypsum board.
5. Always use the mounting bracket as well as proper nuts and bolts to install the inline fan.

hole

screw   screw

Yellow Red Blue Yellow-Green

C

| 1 | 2 | 3 | ⏚ |

L   N   PE
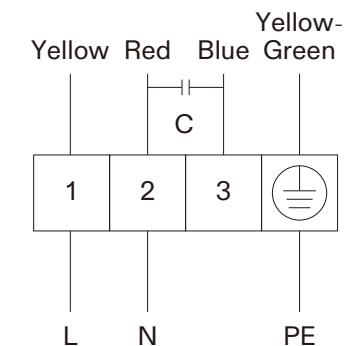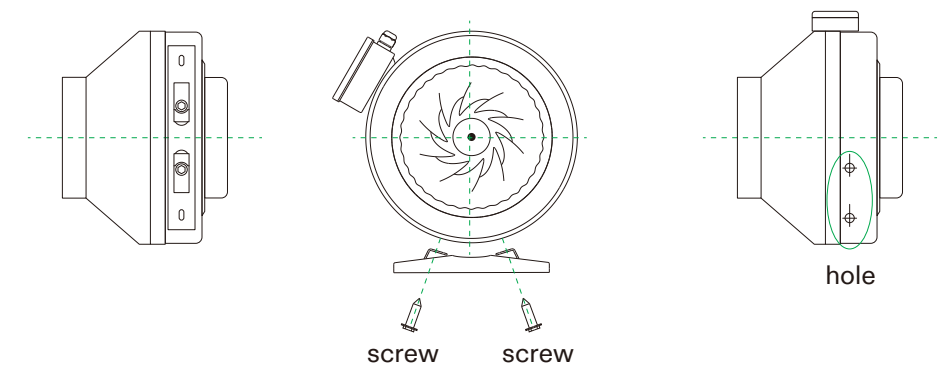
SPECIFICATIONS

PRODUCT CONTENTS
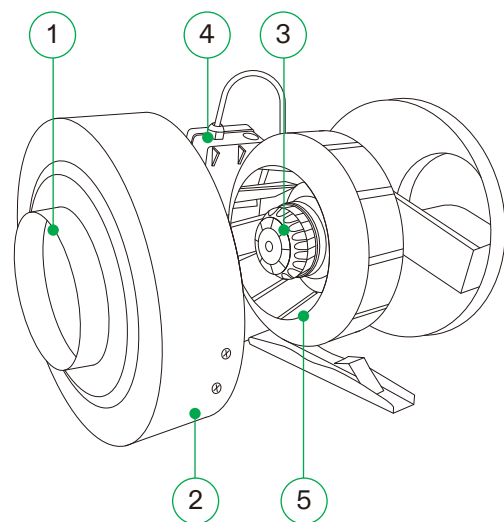
1. Intake Mounting Flange
2. Shell
3. Motor
4. Junction Box
5. Blade

DIMENSIONS
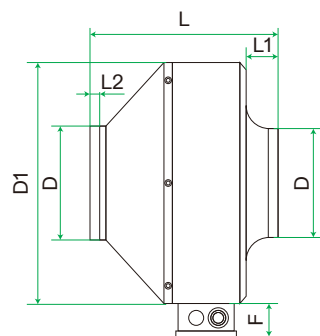
	D	D1	L	L1	L2	F
Size	φ4.0	φ9.2	7.6	1.0	1.0	1.6
Size	φ6.0	φ10.8	7.6	1.0	1.0	1.6
Size	φ8.0	φ13.0	8.2	1.0	1.0	1.6

SPECIFICATIONS

NOTES

1. After removing Inline Duct Fan from its packaging, please check the fan's exterior and components to ensure no damage was sustained during shipping,
2. The Inline Duct Fan should only be operated within its electrical current and voltage ratings.
3. Please wear protective gloves or take similar precautions to prevent accidents when moving or installing the fan.
4. Please turn off the power before cleaning or performing maintenance.
5. Please do not expose the fan to sunlight, rain, snow, or other harsh conditions.
6. Please ensure there is no risk the main switch will be turned on while installing the fan.
7. Please store and install the fan away from the reach of young children to ensure safety.
8. Please keep the fan away from alcohol, gasoline, corrosive chemicals, and flammable or explosive compounds to prevent fire.

MAINTENANCE AND CLEANING

1. The motor and rotor blade of the Inline Duct Fan should be inspected every 6 months.
2. Fan maintenance should be performed by capable personnel.
3. Turn off the power when cleaning or repairing the fan. After cleaning or repairs, please confirm the integrity of the fan and ensure all components are properly installed before turning it on.

OPERATING ENVIRONMENT REQUIREMENTS

1. Operating temperature and humidity
   Operating temperatures: -40°C/-104°F to +65°C/+149°F
   Operating humidity: 5% to 95% RH
2. Presence of electrically-conductive air particles: the air in the area of operation should be free of significant concentrations of electrically-conductive particles such as active carbon, ferrous powders, etc.
3. Storage temperature and humidity
   Storage temperatures:-40°C/-104°F to +65°C/+149°F
   Storage humidity: 0% to 85%RH

Please read the following warnings carefully before initial use. Failure to observe these safty warnings may result in serious injury or accidents and will release VIVOSUN of all liability and void all product warranties.

WARNING

1. The fan and motor must be operated only within the prescribed scope of temperature (-40°C/-104°F to +65°C/+149°F) and humidity (5% to 95%RH) otherwise the device may give users an electrical shock upon contact or cause unexpected damage.
2. The fan should not be operated in environments where there is a significant concentration of electrically-conductive particles, such as active carbon or ferrous powders, in the air.
3. Use the right voltage according to the nameplate, otherwise the product will be damaged.
4. Follow the wiring diagram for installation and ensure the device is connected to the ground if required.Use of an extension cord is not recommended.A poor connection may cause damage to the fan.
5. Exercise caution when moving the fan. Do not lift or carry the fan by its blades, as this may cause the device to produce more noise during operation.
6. The length of the mounting screws must not exceed the specified length, otherwise the fan will be damaged.
7. DO not remove components of the device, as doing so may affect the fan's safe operation, air-tight seal,balance, or other important properties.
8. The overcurrent protector is necessary to prevent damage from overcurrent.
9. Install the fan only as indicated in the user manual. Any other methods of installation may affect its service life.
10. The fan, especially its blades and electrical components, should be kept out of the reach of children.Children must not operate the fan without supervision from an adult.

INSTRUCTION

1. This timer has a built-in backup battery that saves the user's presets and programs.
2. The timer is designed for indoor use so please ensure that the timer stays dry and is kept away from water and moisture.
3. Do not use the timer in temperatures above 131°F or below -14°F.
4. Do not share the outlet with other appliances if the charge will exceed the maximum load for that specific outlet.
5. Heaters, pet feeders, and similar appliances should not be connected to these timers.
6. Appliances must be turned to "ON" before plugging them in to the timer.
7. Do no attempt to repair, disassemble, or modify the timer under any circumstances.
8. Keep the timer away from children and pets when you unplug the timer from the outlet.

Power Supply

220V-240V 50Hz (EU, UK, FR, IT, SW, TH, IS, CHI ,VN)
100V-125V 50/60Hz (US)
100V-220V 50/60Hz (BR)

Power Rating

16(13)A 3600W (GR, IT, FR, IS)
13A 3100W (UK)
10(13)A 2300W (SW)
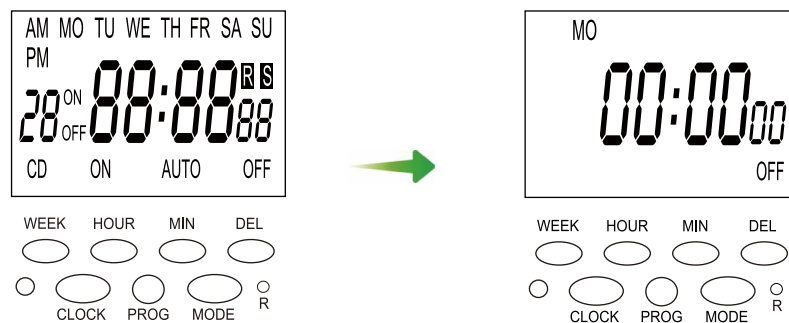10(13)A 2200W (BR, CHI)
15A 1250W (US)

1. INITIAL SETTINGS

Press Reset button "R" to reset the timer. The screen will turn blank and show reset display.
Note:

a. If the screen is blank, please plug the timer into a power to charge the battery for 15 to 20 minutes and press "R" button to factory mode.

b. Return to factory mode all user's programs & settings will be deleted.

2. SETTING THE CURRENT TIME

a. Setting "day"

While pressing the "CLOCK" button, press the "WEEK" button to adjust the current day. For example, the current day is SUNDAY.
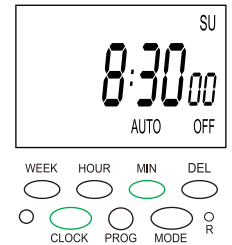
b. Setting "hour"

While pressing the "CLOCK" button, press the "HOUR" button to adjust the current hour. For example, the current hour is set to 08:00.
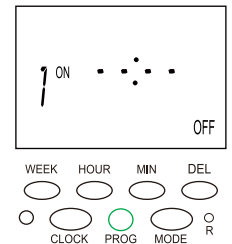
c. Setting "minute"

While pressing the "CLOCK" button, press the "MIN" button to adjust the current minute. For example, the current hour is 08:30.

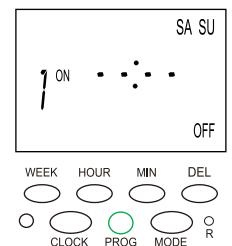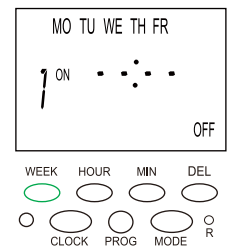## 3. TIMER PROGRAM SETTING

a. Press "PROG" button to enter "1 ON" cycle time setting (first group ON time).
For example 1ON will show on display.
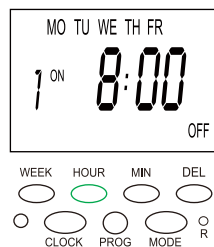
b. Press "WEEK" button to choose the working day you want.
Note: The combinations of days:
1. MO+TU+WE+TH+FR
2. SA + SU
3. MO+ WE+ FR
4. TU+ TH+ SA
5. MO+ TU+ WE
6. TH+ FR+ SA
7. MO+TU+WE+ TH+ FR+ SA
8."MO" or "TU" or "WE" or "TH" or "FR" or "SA" or "SU"

TIMER SETTING

c. Press the "HOUR" button and choose the working hour you need. Long press the "HOUR" button (about 3 seconds) to change the hour number.

d. Press the "MIN" button and choose the working minute you need. Long press the "MIN" button (about 3 seconds) to change the min number.
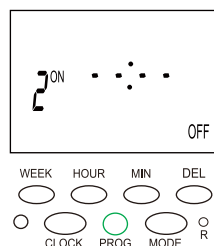
e. After finishing the "1ON" setting, press the "PROG" button to enter the "1OFF" time setting program. Repeat steps b-d to finish the "1OFF" setting.

f. Press the "PROG" button to switch to the next ON/OFF group. Repeat steps b-e to set more timing programs as is needed.
NOTE: The max number of preset groups is 20 ON/OFF cycles.

TIMER SETTING

g. Press the "CLOCK" button to exit the program setting and return to the current time.
NOTE: Press the "PROG" button repeatedly to review the program settings you have created. Press the "DEL" button to delete the program or press the "DEL" button to restore a previous program.

4. MODE AND MANUAL OVERRIDE

Press the "MODE" button to advance to the next program, or it will turn the timer to ON, OFF, or AUTO.

OFF: Always OFF (turns the timer function off).
AUTO: Turns the timer to automatically follow the preset programs.
ON: Always ON (the device and timer function stay on).

NOTE:
1. When the OFF mode changes to AUTO, the power will stay off until the next ON cycle. When the timer is in ON mode, the timer will begin operating according to your program. For example, if you turn the device to AUTO at 8pm, but your next ON time begins at 8am, the device will stay OFF until 8am.
2. When the ON mode changes to AUTO, the power will stay ON until the next OFF cycle. When the timer is in ON mode, the timer will begin operating according to your program. For example, if you turn the device to AUTO at 8pm, but your next OFF time begins at 8am, the device will stay ON until 8am.
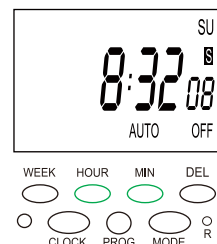Press the "MODE" button to set the MODE to AUTO (timer function).

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25

5. DAYLIGHT SAVINGS TIME

This function allows the timer to adjust the current time on the timer one hour ahead to accommodate daylight savings.
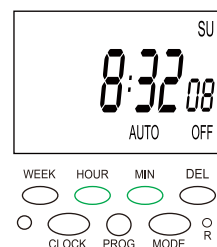
a. Set the daylight saving time:

Press "HOUR" and "MIN" to set the daylight saving time, "S" will show on display. And the current time will be one hour ahead.

b. Cancel & exit daylight saving time:

Press "HOUR" and "MIN" to cancel the daylight saving time. "S" will disappear from the display, the time will back an hour.

6. ANTI-THEFT RANDOM F UNCTION

1. The timer will operate the plugged-in appliance with random ON/OFF cycle pattern when you are away home. It is especially useful during vacations as the home may be occupied by the theft.
2. In random mode, the timer will turn ON and OFF randomly in 10 ~ 42 minutes variation based on the ON and OFF schedule you set.
3. The random function can only work when the timer program has been set, and the mode is in AUTO mode.

a. Random function setting: Check and ensure that the programs have been set and the timer in AUTO mode.
Note: If the timer is not in AUTO mode, please set it according to section 4.

b. Press "WEEK" and "HOUR" at the same time to enter random mode, will show "R" on the display.
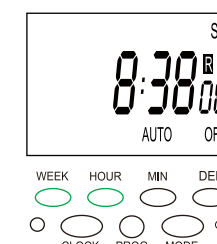
c. Press "WEEK" and "HOUR" to cancel the random mode, "R" will disappear from the display and exit random mode.The timer will work as user previous programs setting.
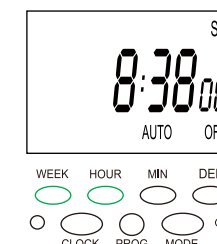
7. COUNTDOWN FUNCTION

This function allows a plugged-in appliance to turn ON or OFF during countdown period. The user can set the countdown duration (1sec-99H59min59sec).
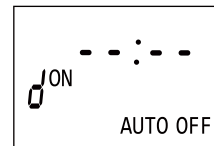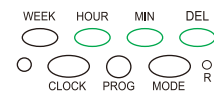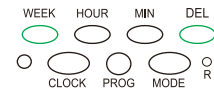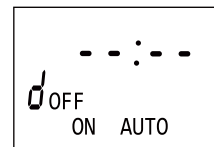
1. Countdown setting:

a. Keep press "WEEK" and "DEL" to enter countdown setting, "dOFF 00:00:00" will show on display.

b. Press"MODE" button to switch the ON or OFF of countdown mode, dON or dOFF will show on display.

c. Press "HOUR","MIN"and "DEL" to set the hour, minute, and second for countdown time you need.

d. Long press "HOUR","MIN"and "DEL" to adjust the hour, minute, and second rapidly.

e. Press "WEEK" to cancel or recover countdown time setting.

Note:

1. If in dON mode, timer will change to Auto OFF when countdown time finish.

2. If in dOFF mode, timer will change to ON Auto when countdown time finish.

OFF mode Display dON

ON mode Display dOFF

2. Manual of countdown operation

a. Press "PROG" to start the countdown work after finish the countdown time setting.

b. Press "PROG" can pause and continue the countdown during countdown work.
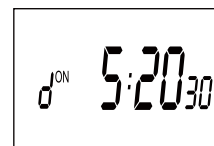
3. Cancel countdown mode

Keep press "WEEK"and "DEL" to cancel the countdown mode at any time and display will back to current time.
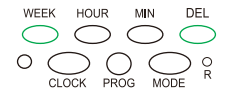
8. AM & PM DISPLAY MODE

Press "MIN" and "DEL" at the same time to switch 12/ 24 hours display mode, "AM" or "PM" will show on display when you choose and set in 12 hours mode. Press "MIN" and "DEL" to exit the 12 hours mode.

SPECIFICATIONS

- Measuring range: -10~70°C (-32~158°F)/10%~99%RH
- Accuracy:±1°C(±2°F)/±5%RH
- Display resolution: 0.1°C (0.1°F)/1%RH
- Power supply: 3V
- Battery: AAA*2 (not include)
- Size: 110*85*27 mm
- Net weight: 140g
- °C/°F unit changable
- Touch screen with backlight
- 2PCS powerful magnets in backside
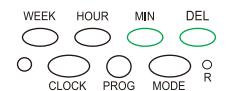- Max min recording in 24Hs or recording all time

OPERATION

°C/°F :

Temperature unit °C/°F changeable.

ALL TIME/24HRs:

ALL TIME record tem/humi max min from turn on the device. 24HRs record tem/humi max min for one day. When LCD display ALL time, touch ALL TIME 3s to clear value When LCD display 24HRS,touch 24 HRs 3s to clear value.

Light:

touch light button open backlight ,touch again off backlight, or light last 5s auto off.

PRECAUTION

- Don't put the product to water.
- Don't subject screen to extreme force or scrape by sharp.
- When dusty in screen, please clean it with soft cloth.
- When screen darkness or misty, please replace battery in time.

TOUCH SCREEN THERMO-HYGROMETER

Our thermometer has been designed andconstructed by US using innovative components. Displaying 24 hour/all-time high/ low records and current trends for both humidity and temperature and humidity level icons that indicate if your home is too humid, too dry or just right!
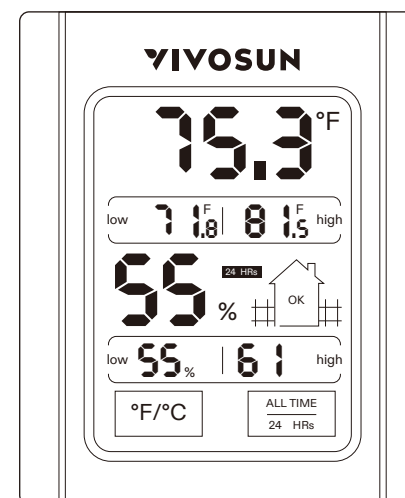
Comfort level:
LOW: Humidity<30%RH
Comfort: Humidity between 30~60%RH
HIGH: Humidity >60%RH

EQUIPMENT SETUP

VENTILATION OF GROW TENT

The grow tent has multiple ducting openings and intake holes for ventilation.

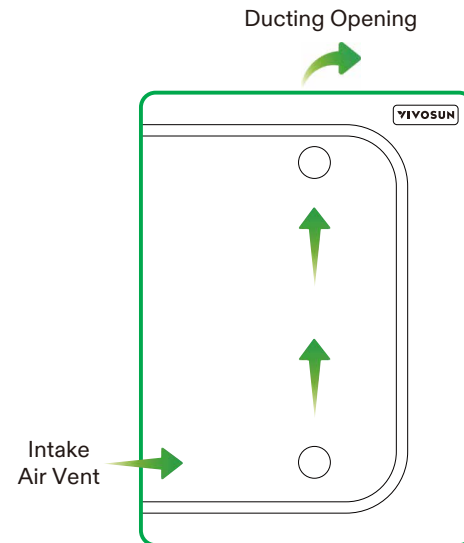**Ducting Opening:** Install a necessary ducting onto a suitable size of ducting opening. Use the cinches on ethier side of the opening to secure the ducting onto the tent.

Intake Air Vent: Introduce fresh air from outside through the intake air vent on the tent.

Ducting Opening

Intake Air Vent

INLINE FAN APPLICATION

The Inline fan can be used as an exhaust fan or an intake fan in a grow tent.

Exhaust fan: Hung or mounted on the highest opposite corner inside your grow tent. Airflow arrow points away from your grow tent.

Intake fan: Mounted at a bottom corner outside of your grow tent. Airflow arrow points toward your grow tent.

Exhaust Fan

Intake Fan
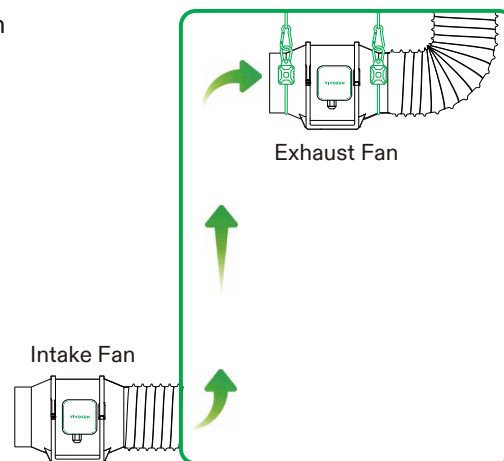
TYPICAL SETUP

Inline Fan & Carbon Filter: Choose an appropriate inline fan suitable for your grow tent. Hang the inline fan on the ceiliing bar of the tent and connect with ductings on the air outlet side of the fan. Install a carbon filter on the air inlet side of the tent and hang with straps (provided with tent).
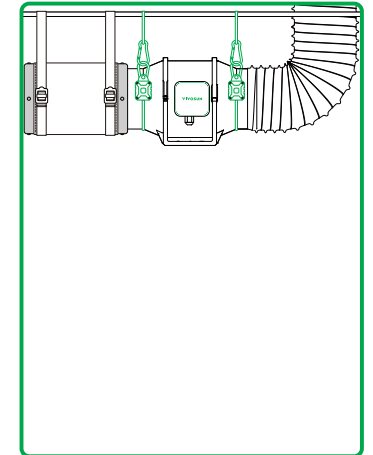
Grow Light: Choose an appropriate grow light for your tent. Install the grow light with rope hangers after install the inline fan and carbon filter. Adjust the light to an apporpriate height.
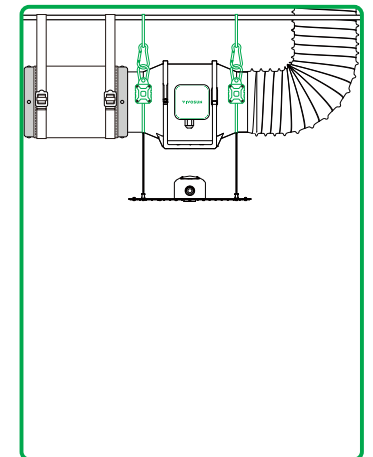
SAFETY INFORMATION

⚠ Please read the following information carefully before using. Failure to observe these safety instructions may result in serious injury and will release VIVOSUN of all liability and void all product warranties.

Handling: Set up the light in an operating environment that allows for adequate air circulation. Never allow objects to obstruct or enter the ventilation openings. Avoid looking directly at the lights, when they are turned on. Use shielding and grow room glasses to protect your eyes.

For Indoor use Only: DO NOT devices in this kit outdoors or in any hazardous location such as near flammable, explosive, corrosive chemicals, or in wet environments. Appropriate temperature range: -20 °C to 40 °C (-4 °F to 104 °F).

Power Cord: Your AC cord has a three-wire grounding plug (a plug that has a grounding pin). This plug fits only a grounded AC outlet. If you're unable to insert the plug into an outlet because the outlet isn't grounded, contact a licensed electrician to replace the outlet with a properly grounded one.

Repairs: If there is something wrong with your light, please contact us. Opening the light to inspect or repair in accordance with VIVOSUN's instructions and express permission will not affect your existing warranty. However, if you disassemble the light or install add-ons inside without express permission from VIVOSUN, you may damage the light and void warranty.

Cleaning: DO NOT use water or any detergent to clean this product.

WARRANTY

The VIVOSUN warranty program is our commitment to you. That the product sold by VIVOSUN will be free from defects in manufacturing for a period of two years from the date of purchase. If a product is found to have a defect in material or workmanship within one years of the date of purchase, we will take the appropriate actions as defined in this warranty to resolve any issues.

This warranty program applies to any order, purchase, receipt, or use of any products sold by VIVOSUN or our authorized dealerships. The program covers products that have become defective, malfunctioned, or has otherwise become unusable. The warranty program goes into effect on the date of purchase and expires two years from the date of purchase. If your product becomes defective during that period VIVOSUN will replace your product with a new one or issue a full refund. This warranty program does not cover defects arising from abuse or misuse. This includes physical damage, submersion of the product in water, incorrect installation such as use with the wrong voltage, or misuse for any reason other than the product's intended purpose. VIVOSUN is not responsible for consequential loss or incidental damage of any nature caused by the product.

We will not warrant damage from normal wear such as scratches and dings.

100% BEST QUALITY 100%

If you run into any issues with this product, contact us and we'll happily issue a replacement or a full refund!