



OrchidBox Mini User Guide



FEATURES

- Adjustable light brightness
- Adjustable on duration
- Learns on/off times from user input
- Water level sensing

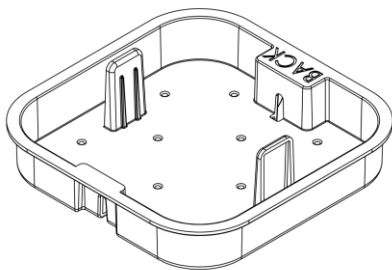
Before Getting Started...

- ✓ Only use distilled water.
- ✓ Some plants don't like to sit in water, always follow instructions for your plants.
- ✓ Follow all warnings at the end of the user manual.



GETTING STARTED

1. Remove contents from box.
2. Put base insert (pictured below) inside OrchidBox.
NOTE: make sure the back side is facing the back.



NOTE: The insert is removable and washable. Try not to disturb the foam attached to the back side. Without the foam the sensor will not function properly.



PLANTING ORCHIDBOX

Make sure the base insert is installed first. See previous section for instructions.

1. Pour desired amount of soil into container.

PRO TIP: recommended soil depth is $\frac{1}{2}$ "-1" above base, past the pinch points.

2. Add plants, decorations, and water as needed.

WATERING ORCHIDBOX

To water your plants, open the lid and add water to the growing chamber.

- Some plants should not be allowed to sit in water.
- Follow individual plants' watering needs.

PRO TIP: For dry-climate plants like succulents, simply misting once per week is ideal. Tap front button ten (10) times to disable water sensing feature.





POWERING ON





1. Connect OrchidBox to AC adapter cable.
2. Place OrchidBox in a safe location.
3. Remove AC adapter from box and plug into wall at chosen location.
4. The front indicator light and grow light should turn on.

INTERACTING WITH ORCHIDBOX



- ▷ **Single tap** Turns the grow light on/off.
See [Light Cycle](#) section
- ▷ **Double tap** Change main light brightness.
See [Changing Light Brightness](#) section
- ▷ **Tap and hold** Change OrchidBox on-hours.
See [Changing Light Cycle On-Hours](#) section
- ▷ **Triple Tap** Displays the set number of on-hours.

LED INDICATOR MODES

NORMAL MODES

-  **Green** normal operation; water level good
-  **Orange** water is getting low
-  **Red** water level low
-  **Breathing Red** water level critically low

OTHER MODES

-  **Dim/Breathing Yellow** – device is in on time hours selection mode
-  **Solid White** – device is in light selection mode

CHANGING LIGHT BRIGHTNESS

The brightness of the grow light can be dimmed in 7 intervals. To change OrchidBox brightness level:

1. **Double tap the front button** to enter light brightness selection mode.
2. **Single tap to select light level.** The light will cycle through light level stops shown below. If no brightness is selected, OrchidBox will be set to max brightness.

PRO TIP: to fine-tune select a light brightness, double tap the front button and hold it down. Release to select new brightness.

PPFD APPROX.		
<i>STOP</i>	<i>%</i>	<i>$\mu\text{mol m}^{-2} \text{s}^{-1}$</i>
1	2.0	13
2	8.0	52
3	18.0	116
4	33.0	215
5	51.0	334
6	73.0	475
7	100.0	648

NOTE: The default brightness level is 40%.

WATERING ALERTS

The integrated optical water level sensor monitors the water level in the device and will alert you when the water is low.

- ❗ When the device detects a low water condition, the device will enter alert mode and the front LED will breathe red. The grow light will slowly dim over a period of three (3) days.
- ❗ When in alert mode, single tap to dismiss alert and light will return to normal.
- ❗ After water alert is dismissed it will not return for about (7) days.
- ❗ To disable all water alerts, tap the front button ten (10) times.

LIGHT CYCLE

OrchidBox operates by turning on for a set number of hours (on-hours), and then turns off the remainder of the 24-hour day.

- ⌚ The light cycle on-hours can be changed (see following section).
- ⌚ OrchidBox learns its light cycle based on user input.
- ⌚ OrchidBox must be manually turned on/off until desired timing is learned.
- ⌚ The internal clock and on-hours are reset when the device loses power.

NOTE: It may take a few days of manually turning OrchidBox on and off at desired times for the desired light cycle to take effect.

CHANGING LIGHT CYCLE ON-HOURS

1. Press and hold the front button for 3 seconds. The front LED will breathe yellow, and then dim yellow.
2. After the light has dimmed, tap the front button once for each hour you want the device to be on.
3. When finished selecting number of on time hours, double tap the front button.

NOTE: the default on-hours is 16.

TO VIEW CURRENT ON-HOURS

- ② To display current on-hours setting, tap the front button three times. The front LED will breathe white once for each on-hour.





F.A.Q. + TROUBLESHOOTING

- ⚠ **The lights seem to be turning on/off at random times, or I can't seem to figure out how to program the lights.** The light cycle clock will always respect the selected number of on hours. For example, if the number of on-hours is set to 16 and the user turns on the device, it will stay on for 16 hours and then turn off again for 8. Turn on and off the device manually until the desired timing is achieved. To change light on-hours, see section “Changing Light Cycle On-Hours” for more information.

- A How do I change the main light brightness?** Tap the front button twice. The device will enter light brightness selection mode and it will cycle through the available light brightness settings. Simply tap the front button again to select the brightness level or wait until the light selection mode has ended to select the max brightness.
- A Help! My Plants aren't doing well.** Every plant has different requirements for growth. Follow the instructions for the plant that you are trying to grow. For example, succulents do not like to be standing in water. Therefore, the soil media should be allowed to dry out between watering. If you suspect the sensor is broken or damaged, you can press the front button 10 times to disable the sensor.
- A Is the lid waterproof?** NO, the lid is not waterproof, please be careful when cleaning, watering, or rinsing.
- A Everything looks dead and dry.** Add water if needed. If the sensor has malfunctioned it will not indicate when water level is low. Some plants cannot handle high light brightness values. Try turning the light brightness down. Follow instructions in the section "Changing Light Brightness" for more details.

IMPORTANT SAFETY WARNINGS

- ⓘ Children should use OrchidBox only under adult supervision.
- ⓘ For indoor use only in ventilated areas. Do not expose to the elements, excessive moisture, dust, heat, liquid or flame.
- ⓘ Indoor rated operating range: 55°F to 85°F (12°C to 30°C), relative humidity range 5% to 80%.
- ⓘ Place OrchidBox on an even, level solid surface.
- ⓘ Do not place any objects on top of OrchidBox.
- ⓘ You may not use OrchidBox for any purpose that is unlawful or dangerous.
- ⓘ Cord should be placed in a location that will not be walked on or pinched.
- ⓘ Do not strain the connecting wires between the lid and the spine by applying excessive pulling force to the lid, or by twisting excessively.
- ⓘ Only use the supplied AC power adapter or an OrchidBox-authorized replacement. Incompatible power supplies can create an electrical or fire safety hazard.
- ⓘ Do not place in direct sunlight.
- ⓘ Precautions should be made to prevent OrchidBox from falling over. Do not allow OrchidBox to tip over when contents (including water) are inside.
- ⓘ Fertilizers, other chemicals, or additives may damage OrchidBox components or plastics.
- ⓘ Ensure that the power cable is firmly connected.
- ⓘ Do not pour water onto the top of the device. To water, open the lid and add water.
- ⓘ Rated for plants only. Use with other contents at your own risk. Do not place flammable or other items inside the grow chamber.
- ⓘ The removable lid is not waterproof. When rinsing or otherwise watering the device, be careful not to get the lid wet. If the lid does get wet or submerged in water, power off immediately. Do not pour water on the OrchidBox exterior.
- ⓘ Do not drop, shake, knock over or otherwise damage the device.
- ⓘ The device features a self-resetting fuse. In the event of a short, please contact support and do not power on the device.
- ⓘ Do not ship or transport the device with contents inside the chamber.
- ⓘ When storing or otherwise not using the device, remove contents, clean and dry the interior chamber.
- ⓘ Interior clear plastics can be scratched with normal usage. Use caution when wiping the clear container.
- ⓘ LED lights can cause retina damage. Do not look directly into the light. Turn off light before opening lid.
- ⓘ Plants grow slowly and OrchidBox requires patience!

WARRANTY INFORMATION

OrchidBox, Inc. "OrchidBox" hereby warrants each of its products and all components therein contained, to be free from defects in materials and/or workmanship for a period of thirty (30) days from date of purchase. In the event of the occurrence of a malfunction, or any other indication of failure attributable to faulty workmanship and/or material, then upon return of the product to OrchidBox, company will at its option, repair or replace said product to proper operating condition. All such repairs or replacements shall be rendered by OrchidBox without charge to the customer.

For live plant material, plants are only guaranteed to arrive alive in satisfactory condition and are not guaranteed past the point of receipt by end user. OrchidBox will not take any responsibility if the package is delayed by customs or act of god or war.

The responsibility for failure of any OrchidBox product or component thereof, which, at the discretion of OrchidBox, shall have resulted either directly or indirectly from accident, abuse, or misapplication of the product, shall be assumed by the customer, and OrchidBox shall assume no liability as a consequence of such events under the terms of this warranty.

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This product is protected by U.S. and pending patents:

<https://orchidbox.io/patents>

For support, please contact support@orchidbox.io or visit

<https://orchidbox.io/support>

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Brought to you by Nate Hollis and friends.



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