



**CALIFORNIA
LIGHTWORKS**

SolarSystem UVB

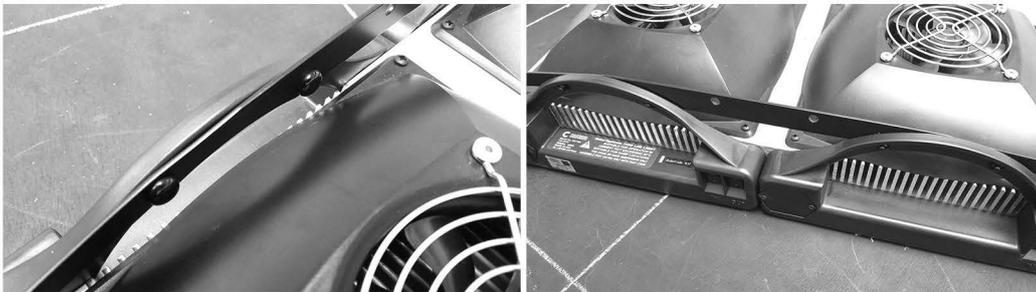
WARNING: EXPOSURE TO UVB LIGHT CAN DAMAGE SKIN OR EYES. TURN LIGHT OFF BEFORE ENTERING THE ROOM – FOR USE ON PLANTS ONLY.

CAUTION: RISK OF ELECTRICAL SHOCK. USE IN DRY LOCATIONS. NOT TO BE USED ON A DIMMER CIRCUIT. USE ONLY SOLARSYSTEM T5 UVB BULB.

INSTALLATION

The SS-UVB can be installed in three different ways:

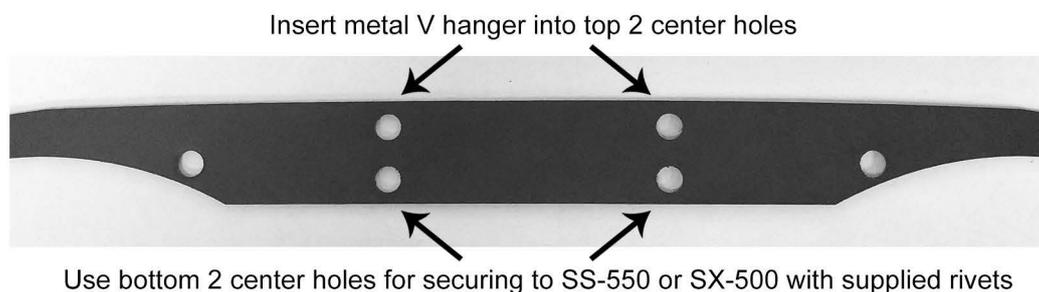
1. Hang the UVB independently with ratchet hangers, chains or any adjustable system (not included). Secure the provided hanging clips with loop holes on to the unit between the guide arrows. Hook the provided caribiner clips into the loop holes and attach to your hangers.
2. If you purchased the 1100 UVB, 550 UVB, or UVB Bracket Kit, you can directly mount 2 SS-UVBs to the light fixture. On the 1100, first remove the two brackets that connect the two panels. A philips head screwdriver or writing tip of a pen can be used to push the existing plastic rivets out (4 on each side) from the outside of the unit. Use the included new rivets to secure the new brackets from the inside as pictured below.



Position SS-UVB symmetrically to mounted brackets and secure provided hanging clips with loop holes just inside brackets. Insert rivets through loop holes and then through holes at the ends of the brackets to complete mounting of UVB unit. The new bracket contains holes in the same position as the original bracket for inserting the original V hangers that came with the light fixture. This also applies to the SolarXtreme 1000.



- You can also use the same mounting brackets with the SolarSystem 550. The bottom 2 center holes can be used to connect the bracket to the handles of the SS-550 with the provided rivets. The top 2 center holes can be used to insert the metal V hanger. This also applies to the SolarXtreme 500.



HANGING HEIGHT

The SS-UVB covers a 4' x 4' area at 3' above the canopy. It is recommended that you mount the SS-UVB at this height. Different plants with unique genetics will respond differently to the intense UVB light that this fixture puts out. When growing cannabis, sativa dominant strains typically have a higher tolerance to intense UVB than strains that are indica dominant. If you notice leaves on your plants start to turn brown around the edges, increase the distance between the UVB and your plant or decrease the exposure time per day. If you don't notice any unwanted results, you may gradually move the light closer to your plants or increase exposure time at your discretion.

SUGGESTED TIMING

The SS-UVB is designed to be used during the last 2-3 weeks before harvest, when it can make a noticeable impact on plants. It is suggested to run your SS-UVB for 2-6 hours per day at 36" above the plant. If you're unable to mount the light at 36" above your plants, decrease the amount of exposure time. Do not power your SS-UVB on during your dark period as this can cause unwanted effects. Always monitor your plants to make sure you are getting the desired response, while making any necessary adjustments in height and/or on time to increase or decrease UVB exposure as desired. Growers typically see a noticeable difference in the amount of trichomes within the first two days after running the SS-UVB for just a few hours per day. Many growers also notice leaves changing color in response to UVB exposure.

SOLARSYSTEM CONTROLLER INTEGRATION

The SS-UVB and the SolarSystem Controller do not integrate with each other like SolarSystem series LED light fixtures. Automatic on/off programming for the SS-UVB requires a separate timer or contactor panel. You can chain together up to 20 SS-UVB units on 120v and up to 40 units on 240v to run from one power outlet.

MEASURING UVB INTENSITY

UVB is measured in $\mu\text{W}/\text{cm}^2$ or microwatts per centimeter squared. Over a 4' x 4' area with the SS-UVB hung at 3' you're going to get about 90 $\mu\text{W}/\text{cm}^2$ in the center, 35-50 $\mu\text{W}/\text{cm}^2$ on the outside edges, and 20 $\mu\text{W}/\text{cm}^2$ in the corners. This distance allows for longer exposure times (depending on plant genetics) with less chance of negative effects on your plants. 3 ft is also the ideal hanging height for best possible uniformity. The graphic below shows UVB measurements over a 4' x 4' area with the SS-UVB hung at 3'.

