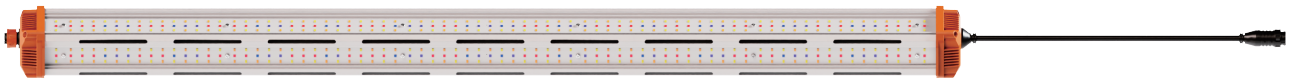
Inner Canopy LED Bar User Manual



ICL-300 | 120W 300° Light Angle Inner Canopy LED (4 Spectrum)

• SAFETY PRECAUTIONS

Read the installation and operation instructions carefully before installing and operating this device. Proper adherence to these instructions is essential.

• WARNING

- Users are responsible for the connection and safe installation and usage of the devices.
- Before installing, servicing, or performing routine maintenance, follow these general precautions.
- It is highly recommended to have a certified personnel or licensed electrician to install your grow light.
- If you are unsure about the installation or maintenance of the fixture, consult certified personnel, licensed electrician and check your local electrical code.
- Tightly secure the light fixtures using appropriate mounting hardware to ensure the fixtures are safe to work under. Please read and follow the instructions.
- Ensure the building structure, mounting solutions and components being used are rated to support the weight of the light fixtures.

- DO NOT make or alter the enclosure of internal wiring or the electrical components during light fixture installation.
- Turn off the power and unplug the fixture when you perform any maintenance.
- Verify if the electrical system can support the voltage and current requirements correctly by referring to the information on the specification labels.
- Avoid hitting, bending or causing mechanical stress to the fixture.
- DO NOT cover or block any part of the fixture during operation.
- To clean the LED bar, use a mild soap or detergent (e.g. common dishwashing liquid) and lukewarm water by gently using a clean soft damp cloth.
- Always provide a well-ventilated environment where ambient temperatures do not exceed 104 °F (40 °C) regardless of whether the fixtures are in operation or not. Excessive temperatures can inhibit performance and may cause damage or shorten the life of the fixtures and void the warranty.

• CAUTION

Read all instructions carefully before installation.

This product is not intended for use by any persons and children with reduced physical, sensory or mental capabilities or lack of experience and product knowledge.

The device is designed to be installed INDOORS IN A SPACE THAT IS PROTECTED FROM RAIN AND FLOODING.

General maintenance is not required. DO NOT clean the interior, with any chemicals that might cause damage. To clean the light fixture, use a damp cloth only.

• 5 YEARS LIMITED WARRANTY

ThinkGrow warrants its LEDs to be free from defects in materials and workmanship. The product is warranted 5 years from the date of purchase. Misuse, abuse, or failure to follow instructions is not covered under this warranty. The warranty liability extends only to the replacement cost of the product. ThinkGrow will not be liable for any consequential, indirect, or incidental damages of any kind, including lost revenues, lost profits, or other losses in connection with the product. Some states do not allow limitation on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitation or exclusions may not apply to you. ThinkGrow will, at our discretion, repair or replace its products covered under this warranty if it is returned to the original place of purchase.

• OVERVIEW

The ThinkGrow ICL-300 is a Light Angle Inner Canopy LED featuring 4 light spectrums and a built-in 120-Watt driver. ICL-300 revolutionizes high-density indoor growing. When applying light to plants only from above the plants, the leaves and sections of the plant below the top “canopy” of the plant suffer from low light levels. That is the exact problem the ICL-300 is designed to fix. The ICL-300 emits light in a 300-degree pattern so that when positioned below the canopy, the sections of the plant under the canopy can also get the light they need to produce higher quality and yields. By applying some light to the middle of the plant structure, the user can eliminate lower-quality flower formation and replace it with healthy flowers. The modular design of the ICL-300 allows it to be used in all installations regardless of the shape or size of the growing area.

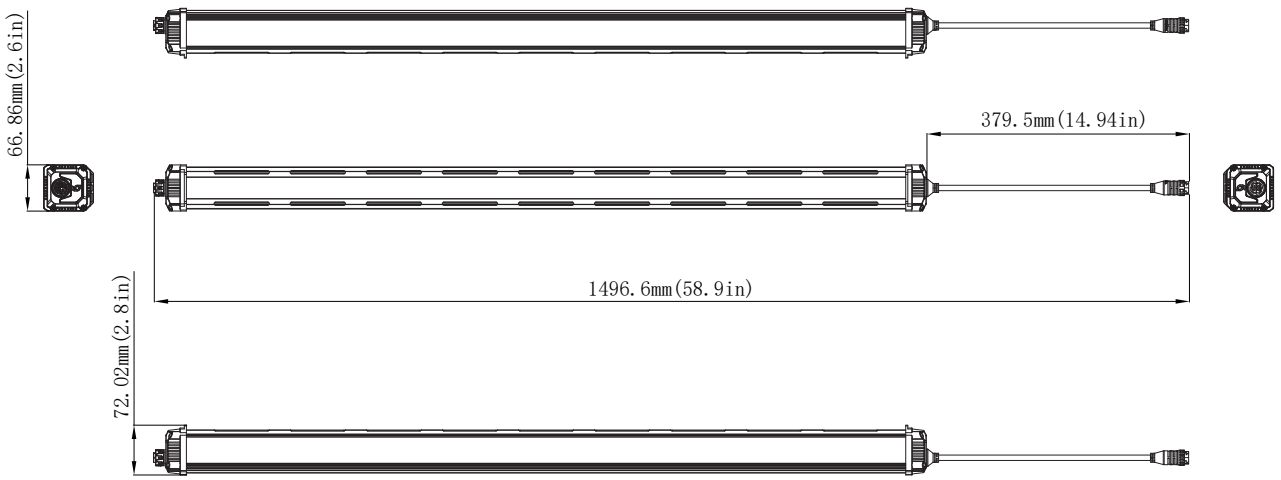
• FEATURES

- Auto-Sensing Voltage
- Four Spectrum Channel (Full Spectrum, Deep Red, Far Red, UV)
- 3-side LED surface
- 300° Lighting Coverage
- Sealed Cover for Lamp Bead Protection
- IP56 Rating
- High power factor and light efficiency
- Flexible installation

• PACKAGE CONTENTS

1 x ICL-300 Light Angle Inner Canopy LED

• PRODUCT DIMENSIONS



• SPECIFICATION

PPF:	Up to 360 μmol/s
Efficacy:	Up to 3.0 μmol/J
Input Power:	120 W
Input Voltage:	100-277V~, 50/60Hz
LED LM Rating and Lifetime:	L90: >54,000 hours
Ingress Protection (IP Rating):	IP56
Working Environments:	Temperature: 32~104°F (0~40°C) Humidity: ≤90%RH
Dimming mode:	RS485
Dimming range:	0-100%
Dimming protocol:	Modbus
Lighting Scheme:	Indoor Non-stacked and Greenhouse
Use Case:	Supplemental
Lighting Position	Inner Canopy Light
Product Dimensions:	1496.6mm(L) x 72.02mm(W) x 66.86mm(H) 58.92"(L) x 2.84"(W) x 2.63"(H)
Package Dimensions:	1214mm(L) x 81mm(W) x 81mm(H) 47.80"(L) x 3.19"(W) x 3.19"(H)
Product Weight:	6.94lbs / 3.15kg

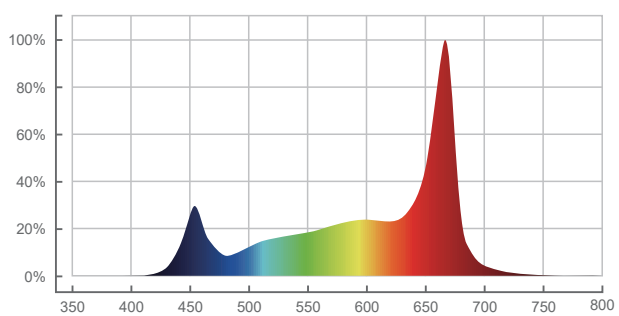
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CONFORMS TO UL STD.8800
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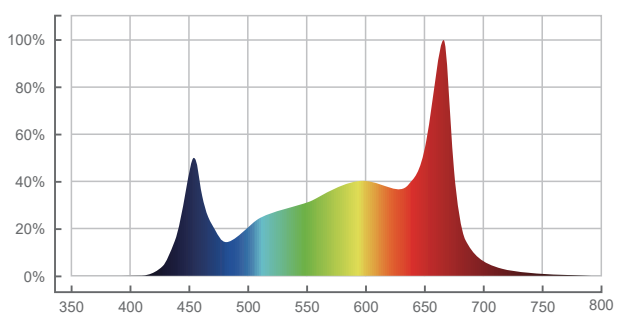
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• LIGHT SPECTRUM

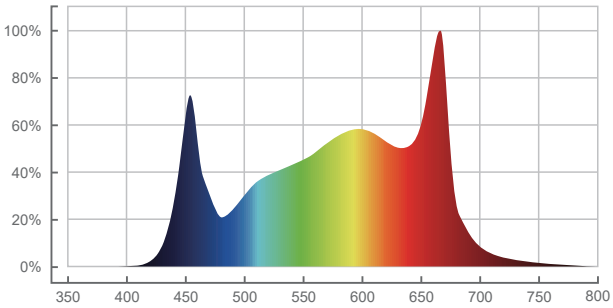
Efficacy: Up to 3.0 μmol/J



Efficacy: Up to 2.9 μmol/J

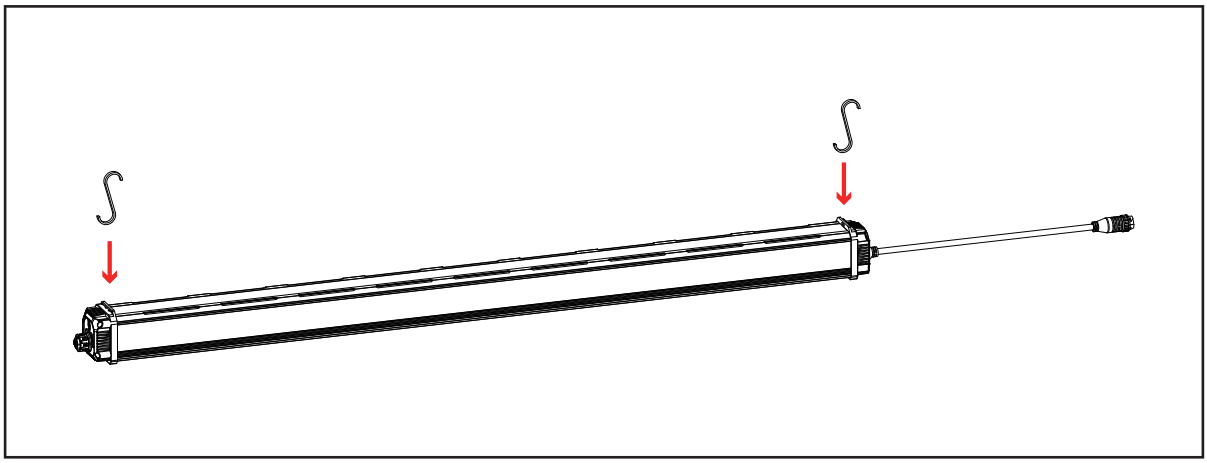


Efficacy: Up to 2.8 μmol/J

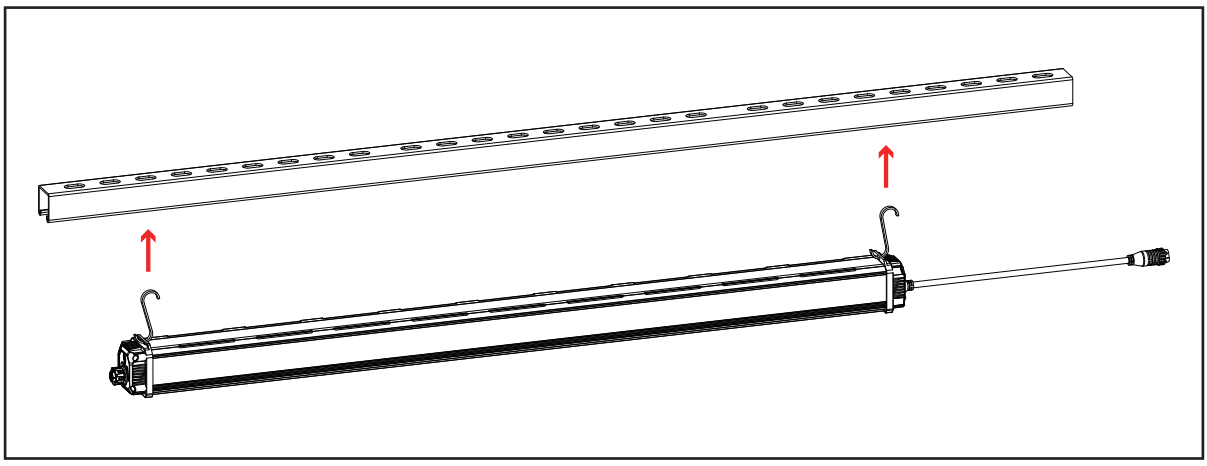


• INSTALLATION

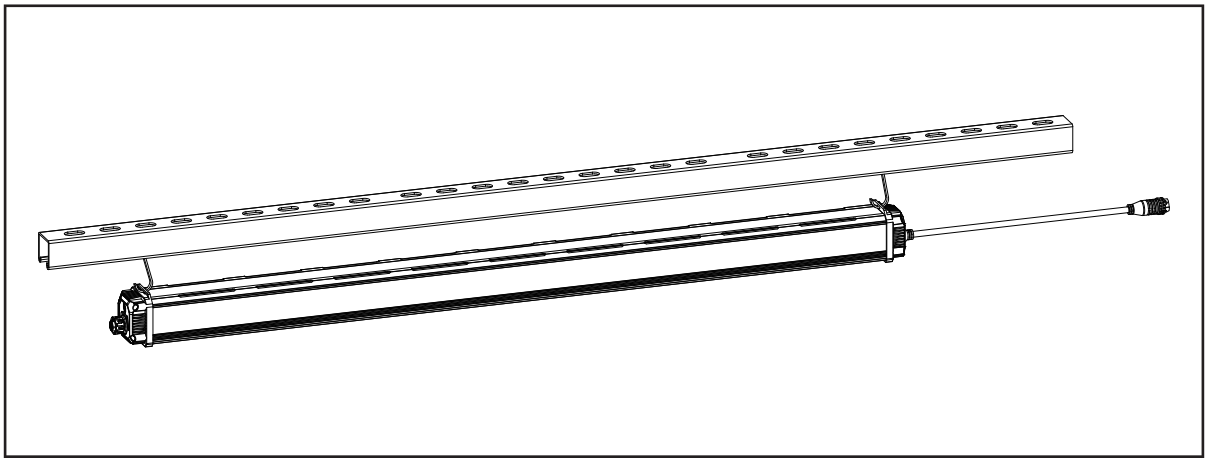
Option 1 - Hang the LED from Above



Step 1: Insert the hooks into the two mounting holes on opposite sides of the light bar. Verify that the hooks are securely fastened.

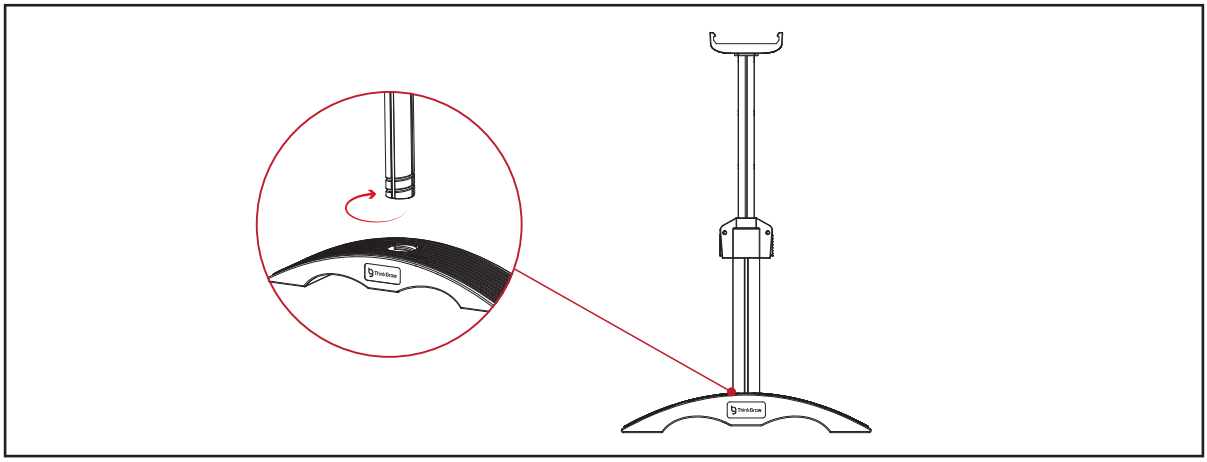


Step 2: Hang the ICL-300 from the ceiling or from above using appropriate rope, wire rope, or cable. Choose a secure mounting point and use suitable hanging hardware. Exercise caution to ensure proper positioning and secure fastening of the ICL-300.

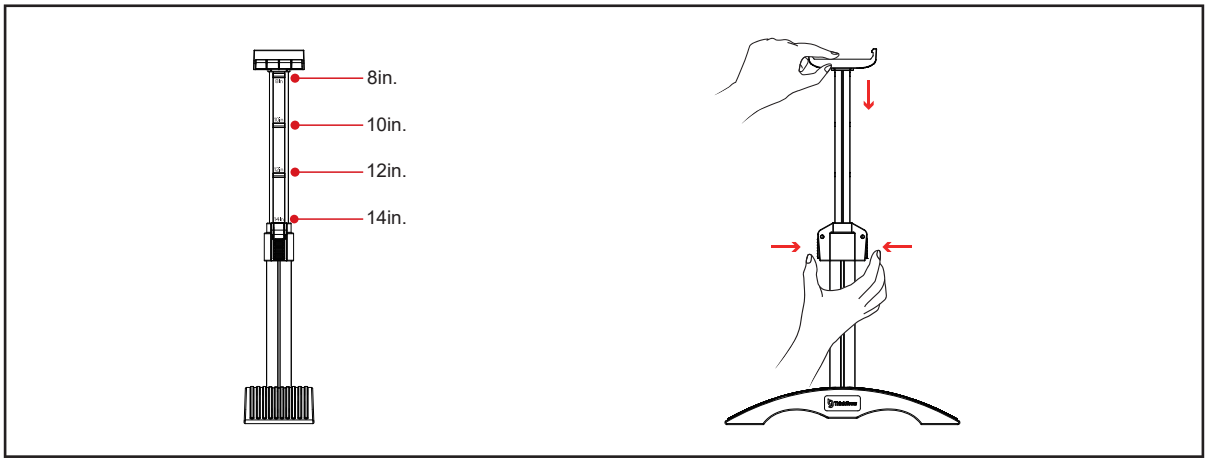


Step 3: After installing the ICL-300, test the support mechanism to confirm it can bear the ICL-300's full weight.

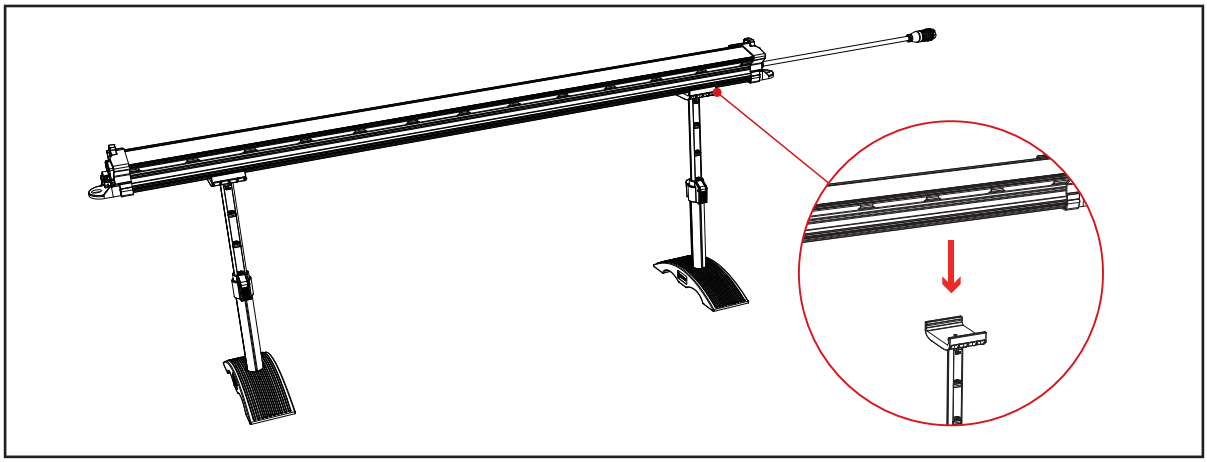
Option 2 - ThinkGrow TSD-3 ThinkGrow Vertical LED Stand (Sold Separately)



Step 1: Begin by securely screwing and inserting each Light Supporting Rod into a Light Stand Base. Ensure a firm connection.

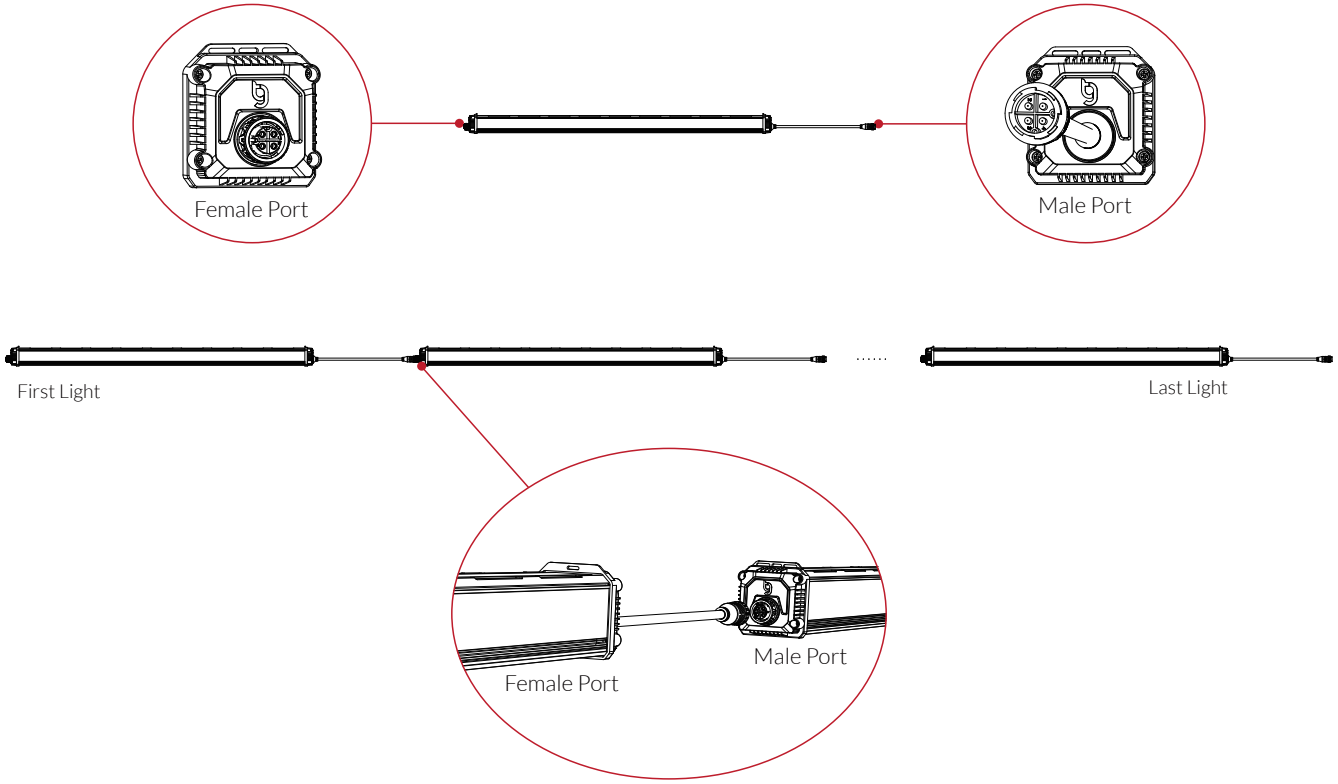


Step 2: Adjust the height for each of the two stands according to your needs. The TSD-3 offers four adjustable height levels: 8', 10', 12', and 14'. To adjust, locate the clip in the middle of the rod. Hold the clip to move the rod to the desired height, then release it to secure the rod in that position.



Step 3: Once the stands are at the desired height, carefully insert and lock the light fixture into place. Align the fixture with the top of each light stand and ensure it is securely attached to both the left and right stands.

Daisy Chain



To daisy-chain multiple clone light bars, position the input of one fixture right next to the output of the next, connect and lock the input and output together.

• POWER

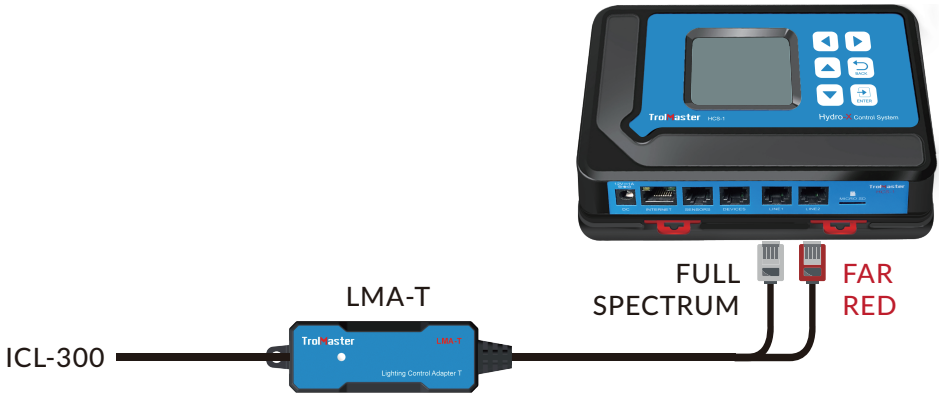
A single daisy-chain configuration can power 8 to 20 fixtures, depending on the main power source. Refer to the table above for specific capacities. After daisy-chaining, connect the power cord to the power source to energize all fixtures.

10A AWG#18 branch circuit	Max # LED in a string	LED Amps	LED Watts	Total Circuit Amps	% circuit load
120V~	8	1A	120W	8.00A	80%
208V~	14	0.58A	120W	8.08A	81%
230V~	16	0.52A	120W	8.35A	83%
240V~	16	0.50A	120W	8A	80%
277V~	19	0.43A	120W	8.23A	82%

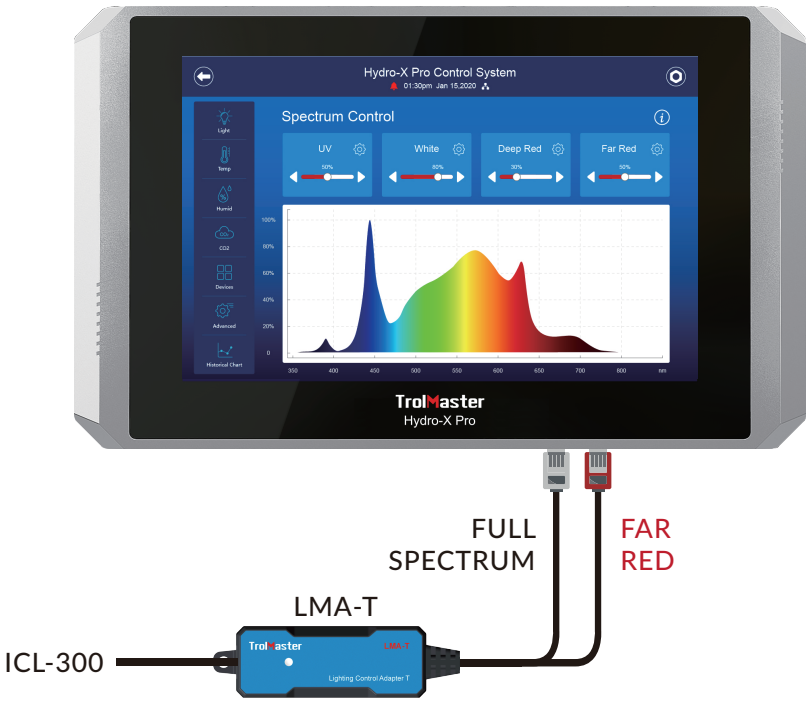
• DATA WIRING

ThinkGrow LED is compatible with all of TrolMaster' s Hydro-X control systems. Up to 256 light fixtures can be controlled by using a single LMA-T adaptor connected to your Hydro-X controller.

To control the ThinkGrow Light Fixtures with the Hydro-X main controller, connect the LMA-T to the first LED fixture's input jack using the provided connection cable. Subsequent fixtures can then be connected by linking the LED output jack of one fixture to the input jack of the next, using the same connection cable.



When connected to HCS-2 or HCS-3 controllers, the same function can be achieved, with the addition of an advanced spectrum tuning function also becoming available for creating special light recipes.



WARNING : DO NOT allow the grow light to be exposed to water or excessive heat. DO NOT open or attempt to repair or disassemble the LED, as there are no user-serviceable parts inside. Opening the controller will void the warranty.

If the surface of the grow light is dirty, wipe it with a dry or slightly damp towel. The grow light operates under natural ventilation conditions.

AVERTISSEMENT : NE laissez PAS la lampe de croissance être exposée à de l'eau ou à une chaleur excessive. NE PAS ouvrir ni tenter de réparer ou de démonter le LED, car il ne contient aucune pièce réparable par l'utilisateur. L'ouverture du contrôleur annulera la garantie.

Si la surface de la lampe de culture est sale, essuyez-la avec une serviette sèche. La lampe de culture fonctionne dans des conditions de ventilation naturelle.

For any issues or concerns with our products, DO NOT return them to the store. Please contact our tech support department at **support@thinkgrow.com** or call **877-420-9876**.

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