

Under Canopy LED Bar User Manual



ICL-120 | 120W 120° Light Angle Under Canopy LED

• 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-120 is a Light Angle Under Canopy LED Bar with a built-in 120-Watt Driver. ICL-120 is set to transform high-density indoor cultivation. Traditional overhead lighting often leaves lower plant sections and leaves, those beneath the canopy, with insufficient light. The ICL-120 directly addresses this issue by emitting light in a 120-degree pattern. When placed below the canopy, it provides crucial light to these underserved areas, leading to improved quality and increased yields. By illuminating the bottom of the plant structure, growers can prevent the formation of lower-quality flowers, fostering the growth of healthier blooms instead.

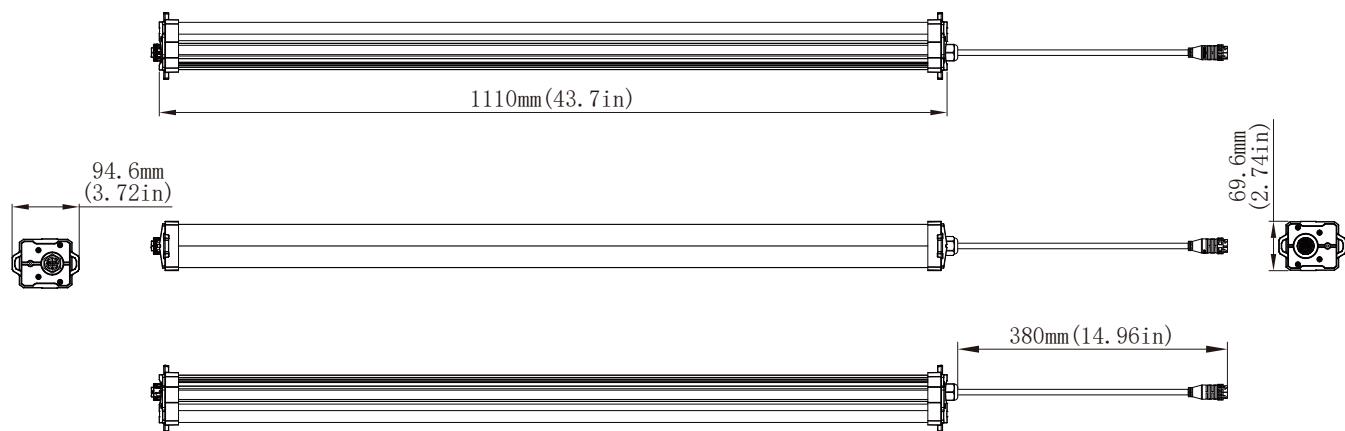
• FEATURES

- Auto-Sensing Voltage
- 120° Lighting Coverage
- Sealed Cover for Lamp Bead Protection
- IP66 Rating
- High power factor and light efficiency
- Single Full Spectrum Channel
- Flexible installation

• PACKAGE CONTENTS

4 x ICL-120 Light Angle Under Canopy LED

• PRODUCT DIMENSIONS



• SPECIFICATION

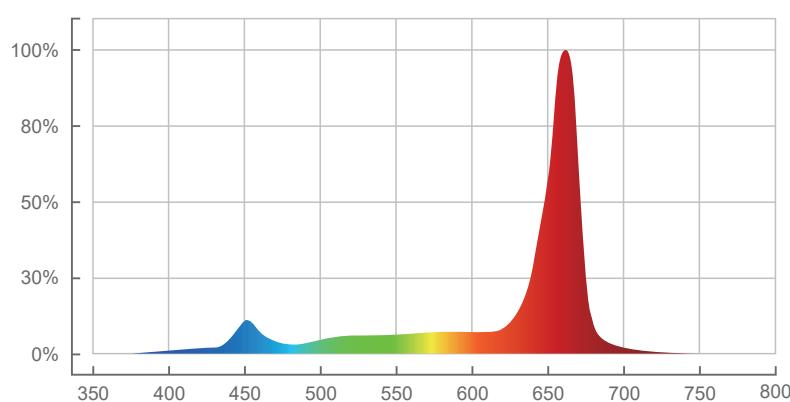
PPF:	348 $\mu\text{mol/s}$
Efficacy:	2.9 $\mu\text{mol/J}$
Input Power:	120 W
Input Voltage:	Autosensing 100-277V~
Power Factor:	$\geq 90\%$
LED LM Rating and Lifetime:	L90: >54,000 hours
Ingress Protection (IP Rating):	IP66
Working Environments:	Temperature: -4~104°F (-20~40°C) Humidity: $\leq 90\%$ RH
Product Dimensions:	1516mm(L) x 94.6mm(W) x 69.6mm(H) 59.69"(L) x 3.72"(W) x 2.74"(H)
Package Dimensions:	1258mm(L) x 282mm(W) x 260mm(H) 49.53"(L) x 11.19"(W) x 10.24"(H)
Package Weight:	26.01lbs / 11.8kg



CONFORMS TO UL
STD.1598
and ANSI/CAN/UL8800
CERTIFIED TO CSA
STD.C22.2 NO.250.0



• LIGHT SPECTRUM

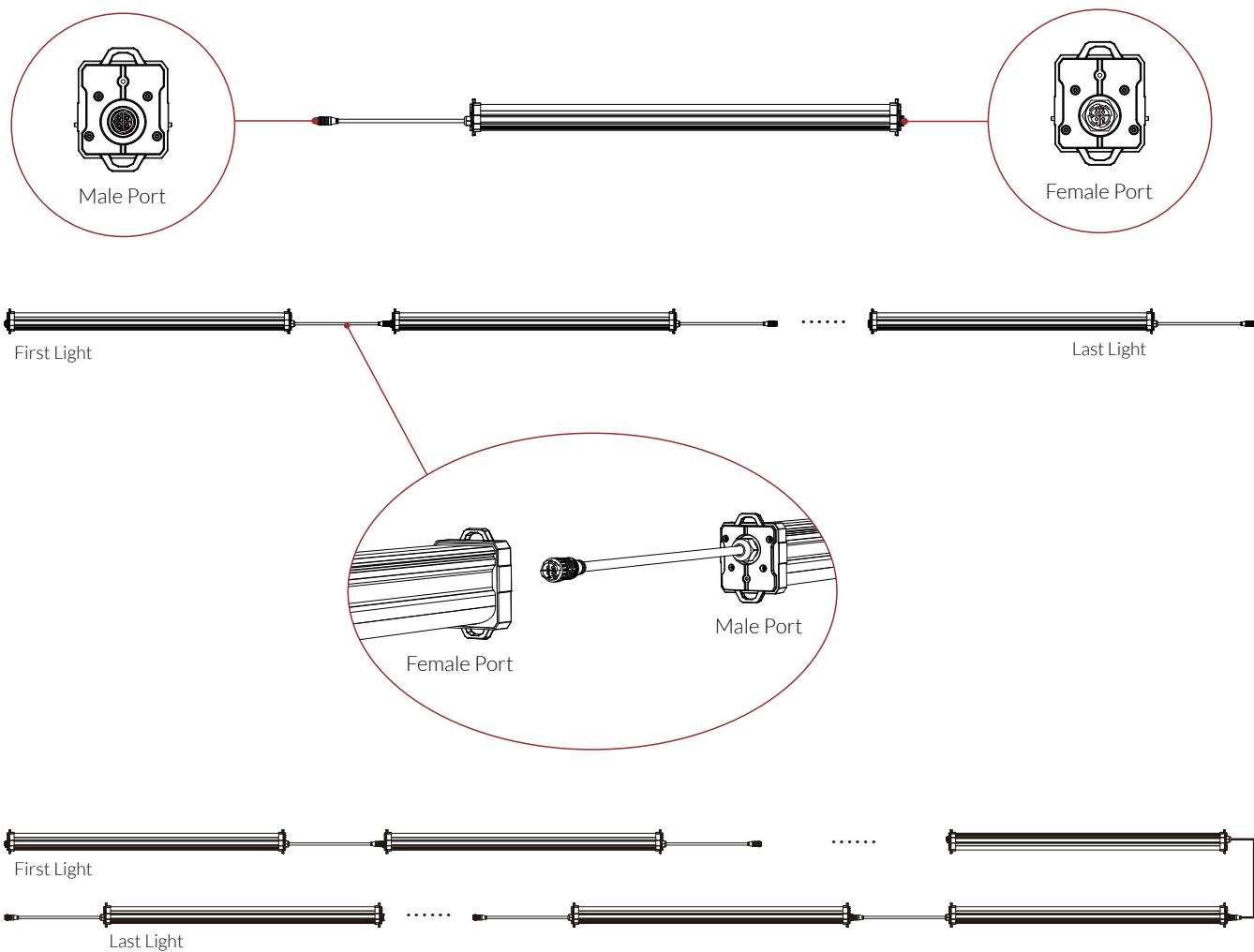


• INSTALLATION

1. Securely install the fixture onto both light stands.



2. 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

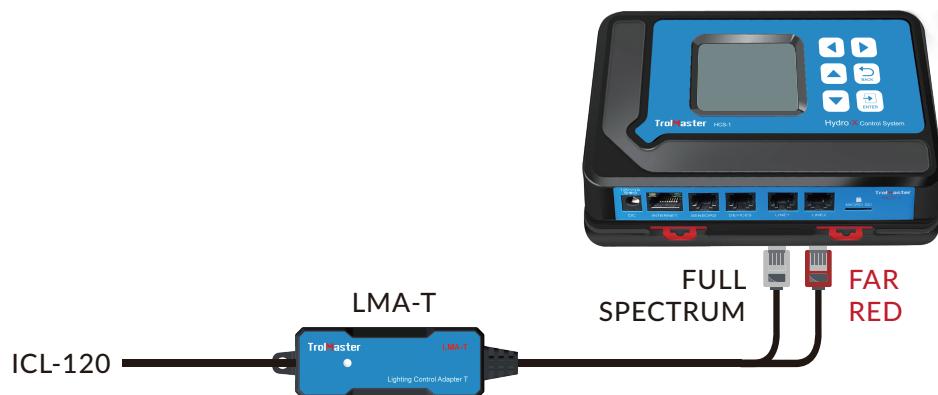
	110V~	120V~	208V~	220V~	240V~	277V~
Current per fixture	1.1A	1.0A	0.58A	0.55A	0.5A	0.43A
Max. # of lights connected	8	9	15	16	17	20

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.

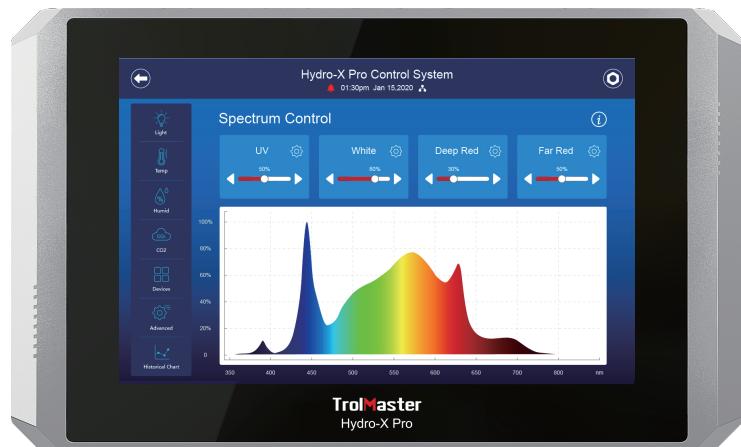
• DATA WIRING

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**.