Installation Manual

Under Canopy Lighting



www.thriveagritech.com
info@thriveagritech.com
800-205-7216

Introduction

This manual provides installation instructions for the Boost XE and Infinity XE LED light bars for under canopy lighting. Please contact customer support with any questions not covered in this guide. Visit Thrive Agritech's website to view an under canopy installation video.

Equipment

Item	Part Number	Image
Boost XE or Infinity XE	TBAR-120W-FS2 or TBAR-60W-FS2	
Mounting Brackets	BDAFR8 or BDAFR14	
Interconnection Clips	INCLIP-BD	
Power Cables	BDPC**X-XX**	
Power Interconnection Cables (optional)	BDINC**X-XX**	
Controller (optional)	CNTRL-V2	
Dimming Interconnection Cables (optional)	DIMINC**X-XX**	
Dimming Adapter Cable (optional)	CNTRL-XE	
Quick Connect Dimming Cable (optional)	CNTRL-DM5	
End Caps	ENDCAP-BD	

www.thriveagritech.com
info@thriveagritech.com
800-205-7216

General Guidelines

- Confirm the overall integrity of the light bar prior to installation.
- Maintain at least 8 inches (0.2 meters) between the light fixture and any combustible materials.
- Keep the light fixture away from sources of heat.
- The LED light is an indoor fixture operated within an ambient temperature range of -20°C to +30°C.
- Ensure power is off before installation. Installation must be carried out by qualified personnel.
- To clean the light fixture, switch power off and use a dry cloth without corrosive cleaning agents.

Daisy-Chaining

The maximum number of lights that can be daisy-chained together at various input voltages is shown in the tables below. Also shown is the nominal current supplied to each fixture. 16AWG wire is recommended.

Boost XE LED Light

Parameter	120 Volts	240 Volts	277 Volts
Nominal current / fixture	1.1A	0.50A	0.43A
Max # of fixtures linked together in a daisy-chain	7 fixtures	15 fixtures	17 fixtures

Infinity XE LED Light

Parameter	120 Volts	240 Volts	277 Volts
Nominal current / fixture	0.54A	0.25A	0.22A
Max # of fixtures linked together in a daisy-chain	14 fixtures	31 fixtures	35 fixtures

www.thriveagritech.com
info@thriveagritech.com
800-205-7216

Installation Overview

A view of a completed installation consisting of 2 lines of under canopy lights is shown below.



www.thriveagritech.com
info@thriveagritech.com
800-205-7216

Installation Instructions

1) Position the Mounting Brackets on the bench to support installation of the first under canopy light – see Figure 1.



Figure 1. Placement of Mounting Brackets on the bench

www.thriveagritech.com
info@thriveagritech.com
800-205-7216

2) Roll the under canopy light fixture onto the Mounting Bracket so that it snaps in place as shown in Figure 2.



Figure 2. Snap the light into the Mounting Brackets.

www.thriveagritech.com
info@thriveagritech.com
800-205-7216

3) Repeat Steps 1 & 2 for the next fixture in line with the first. Daisy chain the two under canopy lights together as shown below (Figure 3).

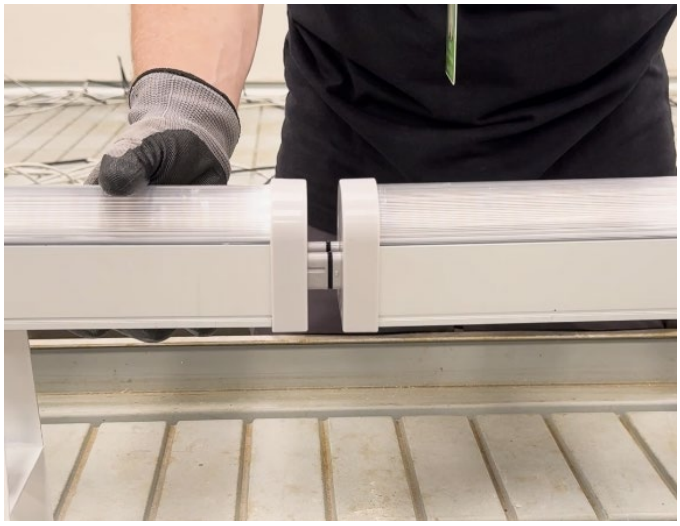




Figure 3. Connect the first two lights together.

4) Once the lights are connected, attach the interconnection clip (INCLIP-BD) as shown in Figure 4 to secure the lights mechanically and electrically.





Interconnection Clip: p/n INCLIP-BD

Figure 4. Secure the lights together with the Interconnection Clip

www.thriveagritech.com
info@thriveagritech.com
800-205-7216

5) Repeat steps 1-4 for all under canopy lights in the grow room. Note the maximum number of lights that can be connected (daisy-chained) is shown on page 3 of this guide and in the under canopy light bar datasheets.

6) Connect the white power cables to lights (Figure 5), and the black dimming cables (Figure 6) if using dimming.



Figure 5. Power connections.



Figure 6. Dimming connections.

7) If using dimming, connect the dimming adapter cable (p/n) on the last light in the daisy-chain - Figure 7. Connect the other end of the dimming adapter cable to dimming quick connect cable (p/n) – Figure 8.



Figure 7. Dimming Adapter Cable connection.



Figure 8. Dimming Quick Connect cable connection.

www.thriveagritech.com
info@thriveagritech.com
800-205-7216

8) Connect the Quick Connect dimming adapter cable to the dimming controller – see Figure 9.



Figure 9. Quick Connect Dimming Cable connection to Dimming Controller box.

9) To remove the lights from the mounting brackets, use a flat head screwdriver to remove the Interconnection Clips and to dislodge the lights from the Mounting Brackets (Figure 10 & Figure 11).



Figure 10. Removal of Interconnection Clips.



Figure 11. Disengage lights from Mounting Brackets.

www.thriveagritech.com
info@thriveagritech.com
800-205-7216