



Evanesce Tab-Tension B CineGrey 5D®

Recessed In-Ceiling Ambient Light Rejecting Projection Screen

User's Guide

This Product is Designed for Integrators

This user manual is written for the comprehension of licensed professional installers/integrators experienced in building and electrical wiring codes.

DIY "do-it-yourself" enthusiasts should consult a professional for assistance

Congratulations on your new *Evanesce Tab-Tension B CineGrey 5D* purchase! The screen material included is our award winning **ISF Certified** CineGrey 5D™ which is a front projection material, precisely formulated for environments with minimal control over room lighting. It was designed to enhance picture brightness, offer accurate color fidelity, and improve contrast levels. The CineGrey 5D™ is best for family rooms, educational facilities, conference rooms, house of worship or any applications in which incident light is a factor.

In order for the CineGrey 5D™ to maintain its projection qualities and optimum performance please refer to the list below for proper maintenance and cleaning.

- Use a dry microfiber cloth to remove dust from the screen's surface.
- When cleaning, use a damp microfiber cloth with warm water to remove any marks.
- Never rub or apply pressure when cleaning the surface.
- Never attempt to use any solutions, chemicals or abrasive cleaners on the screen surface.
- In order to avoid damaging the screen, avoid touching it directly with your fingers, pens/pencils or any other sharp or abrasive objects.

Important Safety & Warning Precautions

Make sure to read this user's guide and follow the procedures below.

Caution: *The screen's Black Top Drop is already set to its maximum drop distance. There is NO extra Black Top Drop in the roller. Please be aware of this as it will void your warranty. Unapproved changes or modifications (except for cutting the power cord for hardwire installations) to this unit are prohibited and will void your warranty.*

- Please retain this user's guide for future reference.
- To avoid damaging the unit, do not use with any unauthorized accessories not recommended by the manufacturer.
- Handle the unit carefully during transportation to avoid any damages.
- To ensure safe and reliable operation, direct connection to a properly grounded power source is advised.
- The power outlet supplying power to the unit should be close to the unit and easily accessible.
- Do not install the unit on uneven or inclined surfaces.
- Do not put heavy objects on the power cord and position it properly to avoid creating a trip obstacle.
- Never overload the power cord to prevent an electric shock or fire due to a loose contact or a short circuit.
- There are no user serviceable parts in this unit. Do not attempt to disassemble this unit by yourself. No one except authorized technicians can open and make repairs to this unit.
- Make sure the power source this unit is connected to has a continuous power flow.
- If there is need to use an extension cord, make sure the cord has an equal rating as the appliance to avoid overheating.
- Do not handle the power plug when your hands are wet, or your feet are in contact with water.

Do not use this unit under the following circumstances.

- Disconnect the power cord under the conditions of heavy rain, wind, thunder or lightning.
- Avoid direct Sunshine, rain shower and moisture.
- Keep away from fire sources and high temperature to prevent this device from overheating.
- Cut off the power supply first before transportation or maintenance.
- Fully disconnect from the power supply when the unit is not in use for a long period of time, as should be done with any other electric household appliance.
- To avoid possible injury and/or an electric shock, do not attempt to use the screen if there is obvious damage or if there are any evident broken parts.

Pre-Installation

1. Carefully unpack the screen. ***Remember to remove the white binding tapes on the screen case before installation.***
2. Always handle the screen in a leveled position on a clean surface.
3. To protect the screen from exposure to stains, keep the screen out of contact with foreign particles such as dust, sawdust, and/or liquids.

Installation Warning

Due to various installation environments, the instructions provided in this user's guide are for reference only. Please consult a professional installation company for further installation and safety advice. The installer must insure that proper mounting hardware is used to provide adequate strength suitable for the installation.

Individual modifications to this product are prohibited and will void the manufacturer warranty.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that the interference will not occur on a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- ✓ Reorient or relocate the receiving antenna of the device that may be causing the interference.
- ✓ Increase the separation between the screen and the device's receiver.
- ✓ Connect the equipment into a different power outlet other than the device.

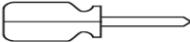
Note

Fasteners included with this product are complimentary and may not be adequate for all mounting surfaces. Consult with a professional installer or hardware store for proper mounting screws and anchors.

Regardless of the mounting method, the screen should be securely supported so that the vibration or pulling on the viewing surface will not cause the casing to become loose or fall. The installer must insure that the fasteners used are of adequate strength and suitable for the installation location.

Hardware Parts List for the Evanesce Tab-Tension B CineGrey 5D

Please make sure all parts listed below are included before proceeding with the installation.

<p>A. Philips screwdriver x 1</p> 	<p>B. Expansion bolts x 4</p> 	<p>C. Lag bolts x 4 5/16" x 3"</p> 	<p>D. M4x10 screws x 4</p> 	<p>E. Ceiling Hanging Brackets x 2</p> 
<p>F. End cover caps x 4</p> 	<p>G. End Covers x 2 185mmx80mm (7.3"x3.1")</p> 		<p>H. Threaded Rod x 4 M8x670mm (26.3" length)</p>  <p>I. Nuts for Threaded Rod x 12 (affixed to threaded rod)</p> 	

Installation



IMPORTANT!

1. Make sure the ceiling structure can support the screen's weight. (31.2 kgs/68.7 lbs).
2. It is strongly recommended to provide a 6" x 12" access panel at the left end of the screen's case to access the left side of the screen.

Minimum space requirement

1. If possible, measure the **height** from the ceiling structure to the bottom of the drywall/sheetrock or the location of where the screen will be installed. **The minimum space required is 7.8" (200 mm).**
2. After determining the **height** (H) of the space where the screen will be installed, deduct 1.18"/30 mm from that measurement to cut the **threaded rod (g)** to that length.
Threaded Rod Length = Height – 1.18"/ 30 mm.

Hanging Bracket Installation

3. Mark the ceiling for the **ceiling hanging brackets (D)** according to the measurements obtained by measuring the **Screen Length + 25 mm (0.98")**, Fig. 1. Then mark the distance between each **ceiling hanging bracket hole**, Fig. 2.

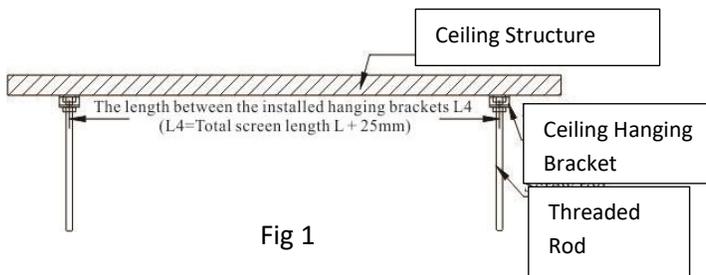


Fig 1

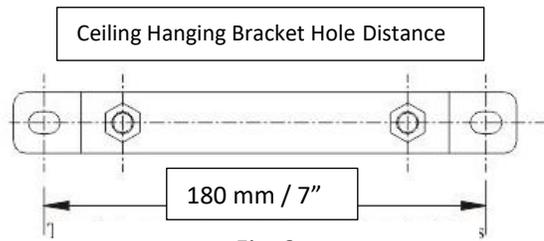


Fig. 2

4. Drill your pilot holes and fasten the **ceiling hanging brackets (E)** to the ceiling using the included **expansion bolts (B)/Lag Bolts (C)** or supply your own fasteners rated for other ceiling surfaces.

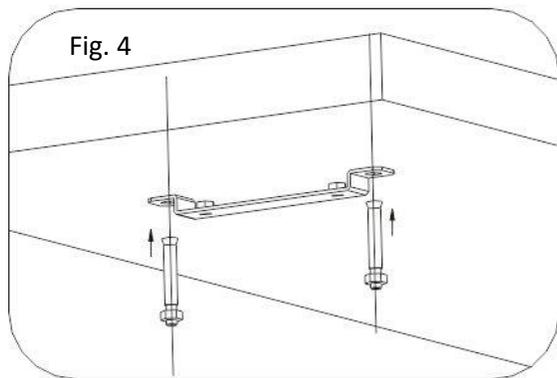


Fig. 4

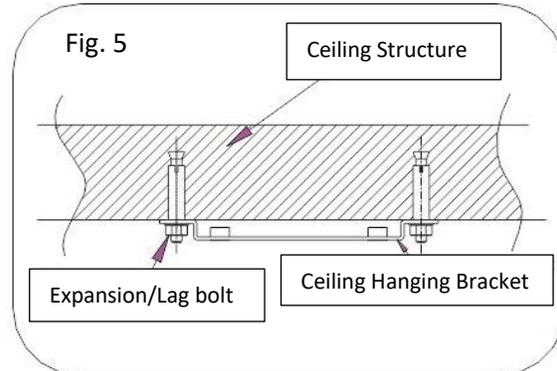


Fig. 5

Hanging assembly

5. **Threaded Rod (G)** and **Ceiling Hanging Bracket (D)** assembly. Thread the **rod** in the **ceiling hanging bracket** as shown in Fig. 6.

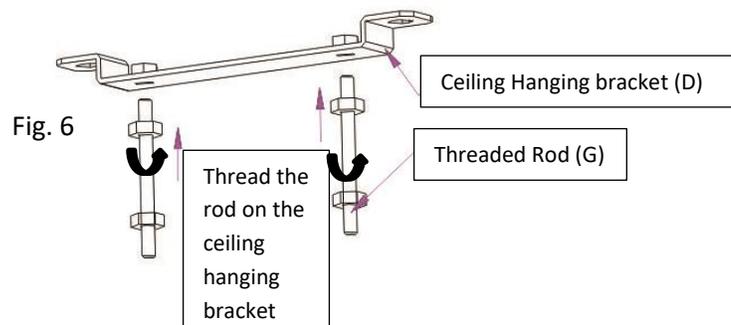


Fig 6

Screen Installation (Requires two or more people)

6. Once the **Threaded rods (G)** are secured in the **Ceiling hanging brackets (D)**, Fig. 7, hang the **screen** from the **threaded rods** one side at a time through the **mounting hole tabs** located on the side end of the screen's case, Fig. 8.

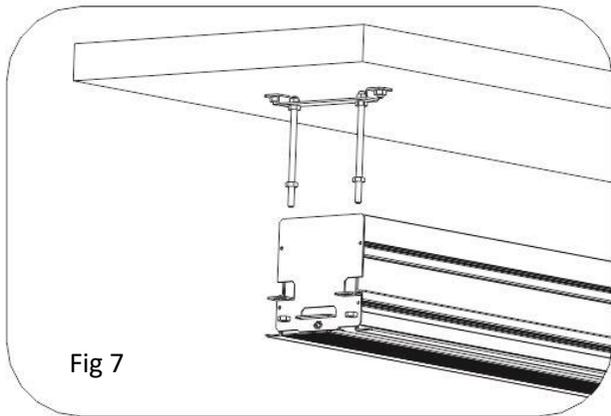


Fig 7

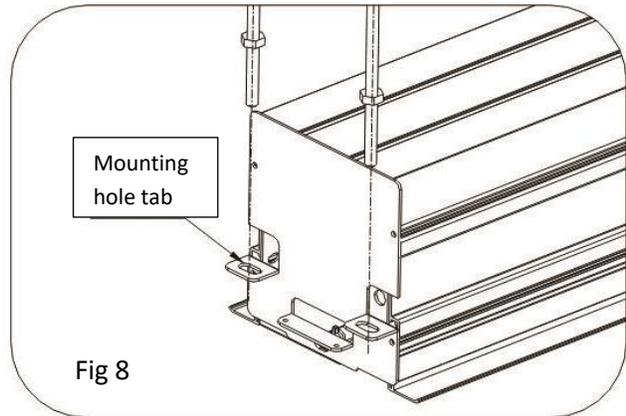


Fig 8

Have assistants hold the screen in position on the **threaded rods**, then thread a **nut** at the bottom of each rod to adjust the final height (Fig 9). Finally tighten the upper nuts to secure screen in place (Fig 10).

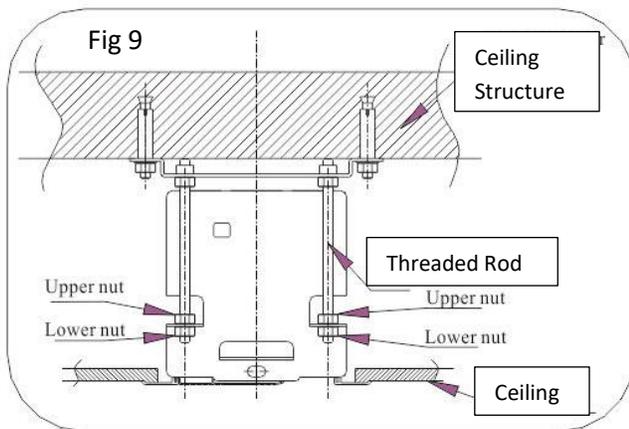


Fig 9

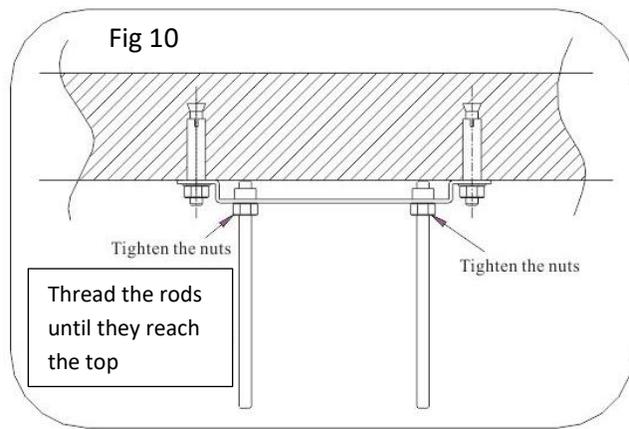


Fig 10

End covers and caps

7. Align the **End cover (F)** holes with the screen's **end cover bracket** located on the end of the screen and secure it using the M4x10 screws as shown in Fig. 12.

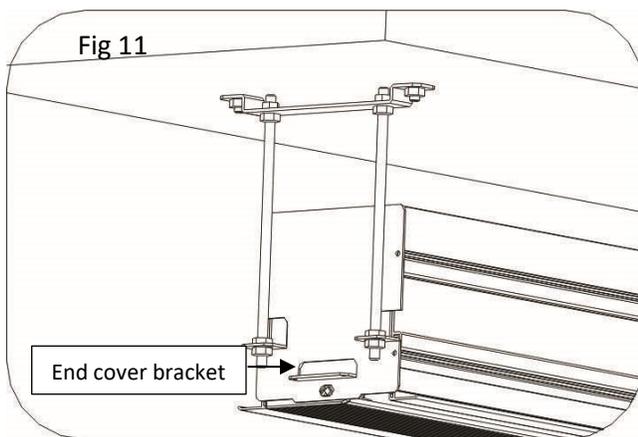


Fig 11

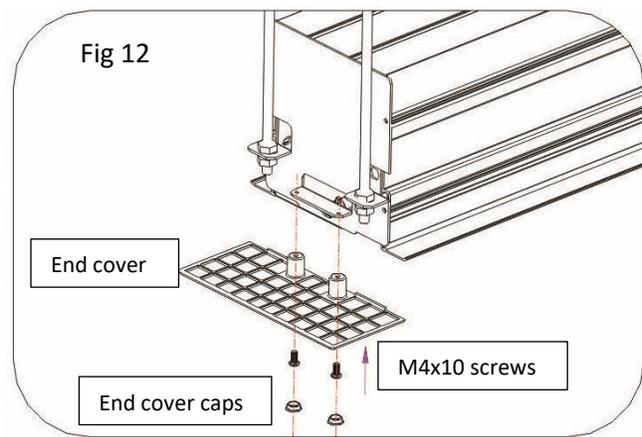
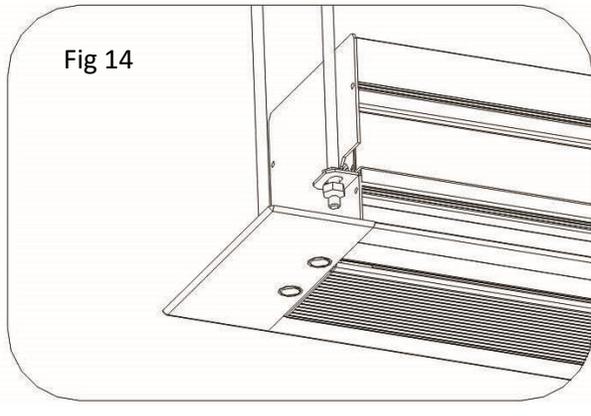
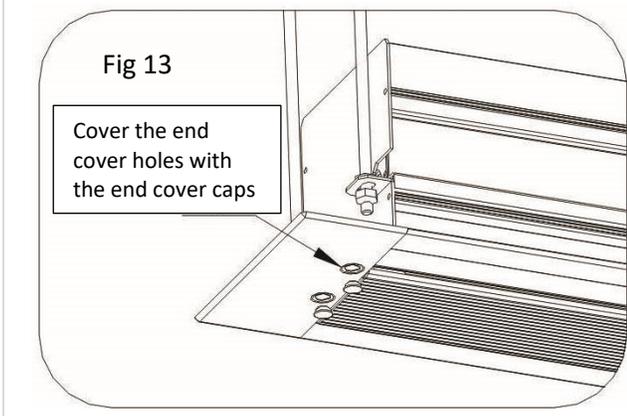


Fig 12

8. Once the **end covers (F)** have been attached, finally insert the **End cover caps (E)** to conclude the installation.



Standard controls included with the Evanesce Tab-Tension 2 CineGrey 5D

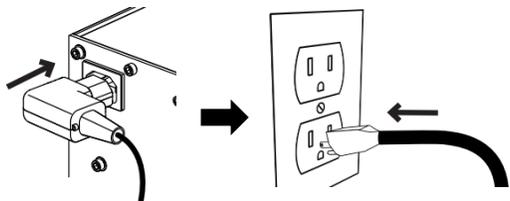
A. RF remote	B. IR remote	C. Extended IR sensor	D. 5-12 volt projector trigger	E. Power Cord
				

Screen Operation

Electric current: The screen operates on AC 120V AC at 60hz/ .97 A. (US/Canada/Mexico only)

Caution: The screen’s motor is equipped with a thermal heat protector which will cause the motor to stop running and prevent overheating if it is in continuous use for more than 4 minutes. When this occurs, please allow the motor to cool down and use again after 15 minutes.

1. Plug the screen’s power cord to the screen and the 3-prong side to a power outlet.
2. Once the screen has power you’ll be able to control it with the controls included as explained next.



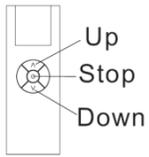
Control System

The **Screen** has equipped with **Infrared** and **Radio Frequency** receivers and a wall switch control panel. You can control the screen’s **UP/STOP/DOWN** positions utilizing either the IR (Infrared) or RF (Radio Frequency) remotes or the wall switch control panel.

1. IR remote control: The IR remote control requires line-of-sight to the IR sensor. Make sure to point the IR remote directly to the **extended IR sensor** (see step 3 for installation).

- Note:* a. The IR remote has a range of 15 feet.
 b. The IR sensor must not be covered or blocked.

2. RF remote control: The RF remote does not require line-of-sight and can be used up to 50ft.



Press the **Down** button to Drop the screen

Press the **Stop** button to Stop the screen

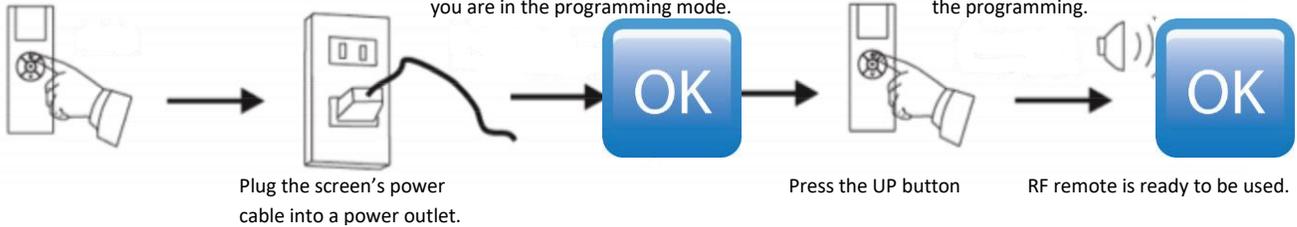
Press the **UP** button to Retract the screen

How to program your RF remote to your screen

Press and hold the UP button for more than 3 seconds.

Stop pressing the UP button upon hearing a beeping sound. This indicates you are in the programming mode.

The receiver will beep three times to confirm the programming.

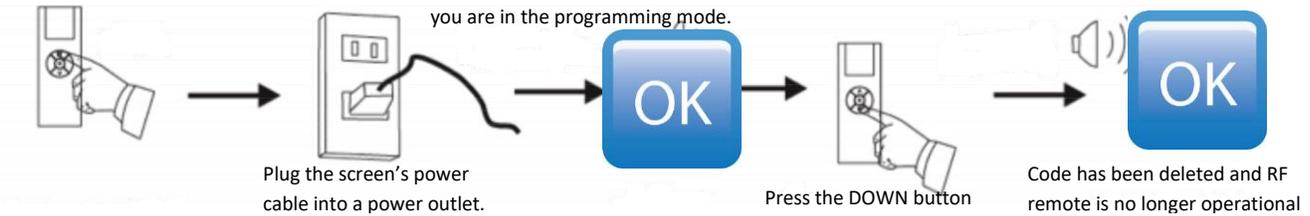


How to deprogram the RF remote and delete the code

Press and hold the UP button for more than 3 seconds.

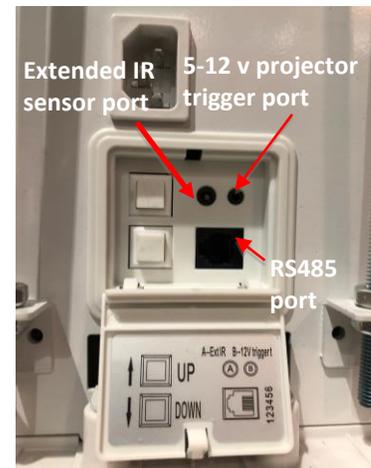
Stop pressing the UP button upon hearing a beeping sound. This indicates you are in the programming mode.

The receiver will beep three times.



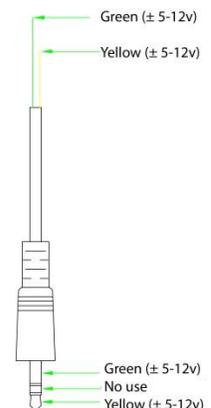
3. Extended IR sensor: Plug the extended IR sensor into the port located on the left side end of the screen. (see below image for precise port location)

Note: Cover will need to be opened to expose inputs



4. 5-12 volt trigger: Connect the mini jack plug end to the 5-12 volt trigger port (see image above) and the other end to your projector's output port to synchronize the projector's power cycle to your screen. Connection to the projector's trigger port is not included. Refer to the diagram below for wiring instructions. Contact your projector's manufacturer for proper 5-12 volt trigger cable information.

The screen should automatically DROP when the projector is turned ON and RETRACT when the projector is turned OFF. You can test the operation using a 9-volt battery.



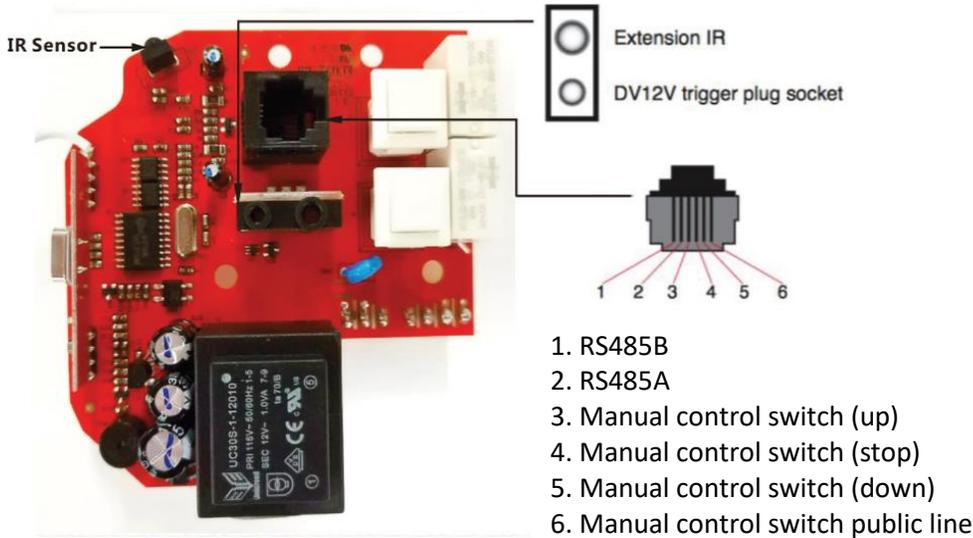
5. RS485 Diagram

A. RS485 Part Setting

1. Baud rate: 2400
2. Data length: 8
3. Parity: N
4. Start position: 1
5. Stop position: 1

B. Control Code

1. Instructions for (up): 0xFF 0xAA 0xEE 0xEE 0xDD
2. Instructions for (stop): 0xFF 0xAA 0xEE 0xEE 0xCC
3. Instructions for (down): 0xFF 0xAA 0xEE 0xEE 0xEE

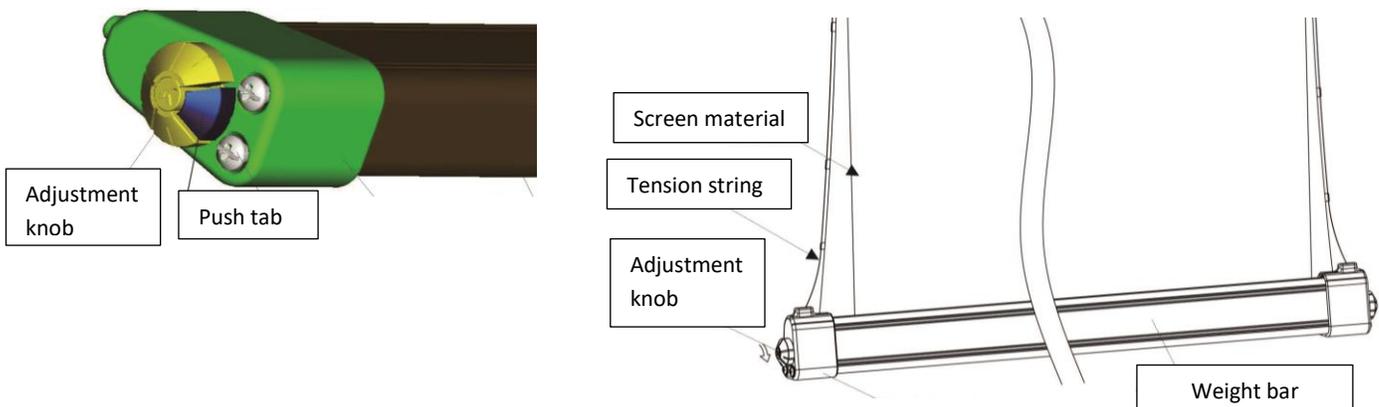


How to tension your screen

The tension has been properly preset for optimal performance. However, If the screen requires the tension to be adjusted follow the steps below.

1. Fully deploy the screen.
2. Locate the adjustment knobs on each end of the weight bar
3. Push the tab in on the knob as you turn it clockwise to tighten and counterclockwise to loosen the strings.

DO NOT overtighten the strings as this will cause them to snap and void your warranty.



For Additional Service, Please Contact Elite Screens Technical Support,

Email: techsupport@elitescreens.com