



# **Starling Tab-Tension CLR® Series**

## **Ceiling Ambient Light Rejecting Electric (CLR®/ALR)**

### **Wall/Ceiling Projector Screen**

## **User's Guide - E Type**

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### **Product Description**

The **Starling Tab-Tension CLR®** Series is an electric projection screen that uses Elite Screens' Ceiling Light Rejecting® technology. The screen material included is our **StarBright CLR®** which is an optical lens front projection material designed to filter and absorb overhead light while directing tabletop mounted ultra-short throw projection. Its best for family rooms, educational facilities, conference rooms or any applications in which incident light is a factor.

### **Screen Maintenance**

Dust and dirt on the projection screen surface will affect the quality and performance of the projection image. For optimal results we advise to pay attention to the following instructions.

- 1) The screen surface has a horizontal lens structure. DO NOT wipe the screen up and down or in a circular motion. Wipe very gently from left to right only.
- 2) Please clean the dust on the screen surface with a soft brush or microfiber cloth (rough towel or cloth may damage the screen's surface).
- 3) Use a dust cleaner blower to remove any dust from the screen material
- 4) Gently wipe the screen with a lightly moistened white lint free cloth with water or with a neutral detergent (1mL/0.33 oz) mixed with water (1000 mL/33.8 oz).

**Notes: *The following precautions should always be followed to avoid damaging the material, which is not covered under warranty.***

- Don't touch the screen material to avoid leaving fingerprints.
- Don't point to the screen material with a fingertip or other sharp objects to prevent damage to the material.
- Don't use acetone, benzene, alcohol and any other organic solvents to clean the screen material. Using such chemicals will permanently damage the screen.

## **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 limit. There is NO extra black-matte drop material on the roller. Please be aware that altering the vertical limit switch to drop the screen material off the roller voids your warranty with Elite Screens. Unapproved changes or modifications (except for cutting the power cord for hardwire installations) to this unit are prohibited and will likewise void your warranty.

For more information, please contact our Technical Support Department at [www.elitescreens.com](http://www.elitescreens.com)

- 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 supplier.
- Handle the unit carefully during transportation to avoid any damages.
- To ensure safe and reliable operation, make sure the power connection is secure.
- The power source should be close to the unit and easily accessible.
- Do not install the unit on uneven, or inclined surfaces.
- To avoid electrical shock or product damage, do not install this device in a damp place.
- Do not place any heavy objects over the power cord.
- Position the power cord properly to avoid creating a trip hazard.
- Avoid electrical shock or fire, by not overloading the power cord.
- The internal & external parts of this unit are not end user serviceable. Do not attempt to disassemble this unit by yourself. Consult an authorized technician instead.
- Make sure the power source that this unit is connected to has a continuous power flow.
- If there is need to use an extension cord, make sure said cord has a compatible power rating.
- Do not handle this or any other electrical device if you are wet or standing in water.
- Whenever the screen reaches its end of life, follow local environmental guidelines regarding its proper disposal.

### **Do not use this unit under the following circumstances.**

- Disconnect the power cord if exposed to moisture, rain, wind, electrical storms or snow.
- Avoid exposure to direct sunlight or any of the conditions stated in the previous bullet point.
- Keep away from fire or other high temperature heat sources.
- Cut off the power supply first before attempting maintenance or removal.
- Do not attempt to use this screen if there are obvious signs of damage.
- 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.

## **WARNING**

Individual modifications to this product are prohibited and will void the supplier's warranty. Please contact Elite Screens Customer Service Team with any questions.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

The product settings are designed to provide reasonable protection against any radio interference within a residential installation. If properly installed, the Starling Tab-Tension CLR® screen may still suffer from Radio Frequency interference from other home electronics.

Although radio interference affecting other household electronics is unlikely, the following steps can be taken should RF interference occur.

- ✓ **Reorient or relocate the receiving antenna on the device that may be causing the interference.**
- ✓ **Increase the distance between the screen and the interfering device's receiver.**
- ✓ **Connect the projection screen to another power source apart from the interfering device.**

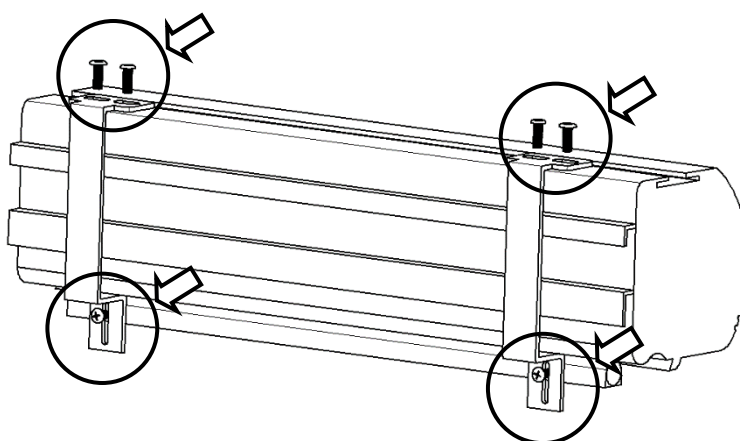
### Pre-Installation

1. Carefully unpack the screen.
2. Always handle the screen upright on a clean, level surface.
3. Keep the screen out of contact with foreign particles such as dust, sawdust, and/or liquids.
4. Do not use the product in an outdoor environment. Avoid wind blowing directly on the screen during projection to prevent the material from swaying which can cause a poor projection effect.

## SHIPPING BRACKETS REMOVAL

### WARNING! PLEASE READ BEFORE INSTALLING!

**Please note:** Before fully operating the screen. Remove the shipping brackets from the weight bar by loosening the 6 screws.



### NOTE

Regardless of the mounting method, each screen should be securely installed so that vibrations or pulling on the viewing surface will not cause the casing to become loose or fall. Included are complimentary mounting screws that may or may not be appropriate for the installation you are attempting. Always use the correct anchors to safely secure the screen. **This product is for professional integrators only**

## Hardware Parts List

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

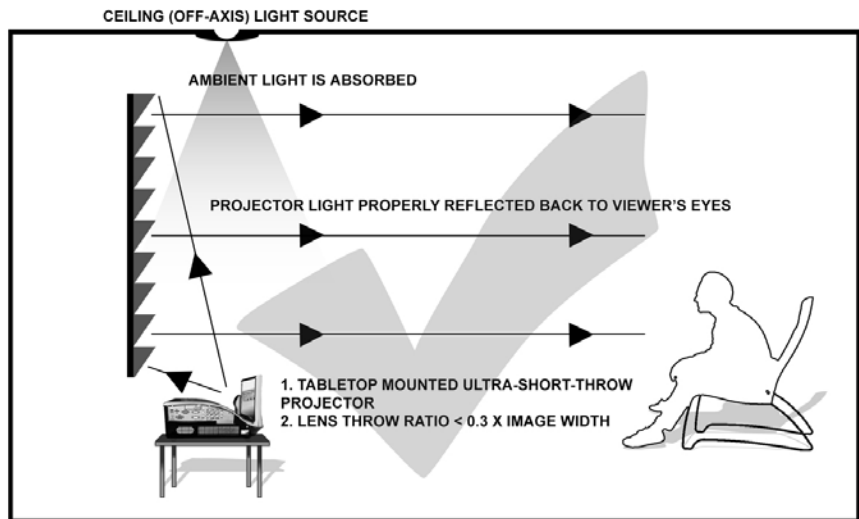
A. Wall / Ceiling mount bracket x2	B. M5x60 Screw x6	C. M12 Dry-wall anchor x6	D. Bracket connector x2 (Installed on the housing)	E. M5x11 Bolt Screw x4 (Attached to Part D)	F. M5x25MM round head cross screws x2	G. M5x30MM eyebolt screw & M5 nut x2	H. Carabiner x2

## Notice to Installer:

### PROPER PROJECTOR PLACEMENT

The StarBright CLR® is exclusively for tabletop bottom placed ultra-short throw projectors as illustrated below.

#### 1) Tabletop mounted ultra-short throw illustration

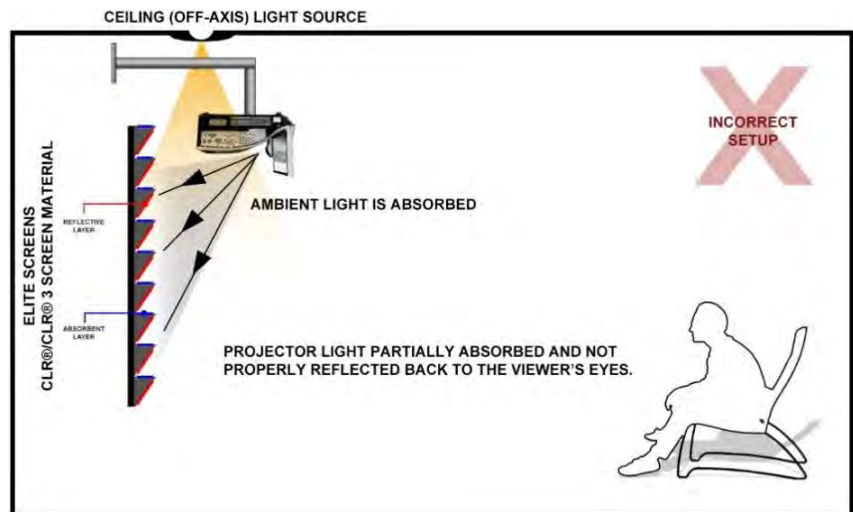


ULTRA SHORT THROW PROJECTOR ILLUSTRATION

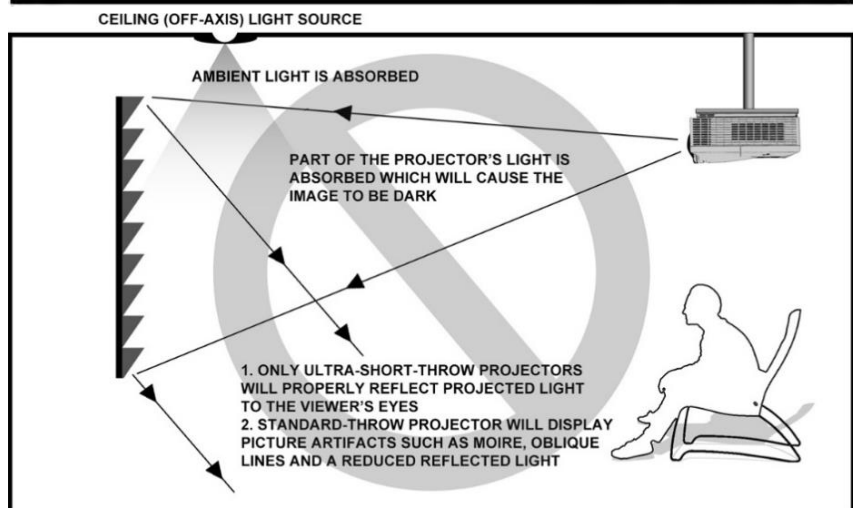
### IMPROPER PROJECTOR PLACEMENT

Overhead placement or a standard projector will make the image very dark, on account of the screen's absorbent layer deflecting light that is not aligned with its reflective angle.

#### 1) Ceiling mounted ultra-short throw projector illustration



#### 2) Ceiling Mounted Short and Standard-Throw Projector Illustration



Images are not up to scale and are for illustrations purposes only.

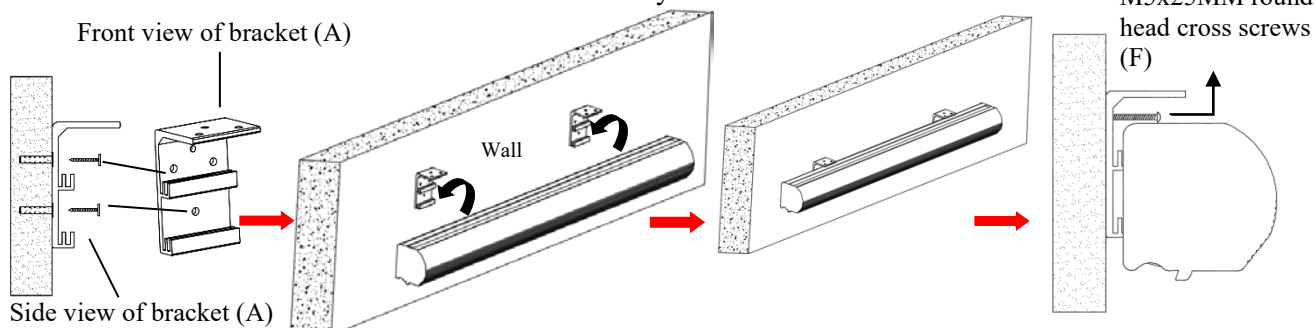
## Installation Instructions

Please consult a professional Installer for installation assistance. Elite Screens is not liable for faulty installations. Two or more people are required while one holds the screen in place.

### A. Wall Mount

#### Flush mount (movable position)

This mount method allows the screen to slide horizontally.

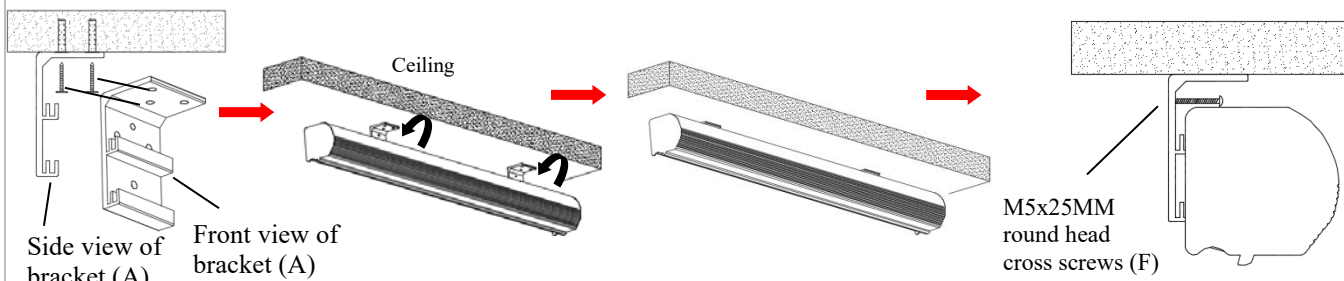


1. Determine where the screen will be installed. Then, measure and mark the distance between the top and bottom screw holes from each **Wall/Ceiling mount bracket (A)**.
2. Drill a hole on all marked points and install the brackets with the **dry-wall anchor(C)**, **M5x60 screw (B)**, Make sure both brackets are properly leveled.
3. Hang the screen by placing the **lower** “catch” located on the back over the bracket’s **upper** “catch”.
4. After making sure the screen is secured, you can slide it left / right to properly center it in position.
5. Lastly, screw the **M5 screw (F)** into the upper hole of the bracket to add additional support for the screen.

### B. Ceiling Mount

#### I. Ceiling Mount (movable position)

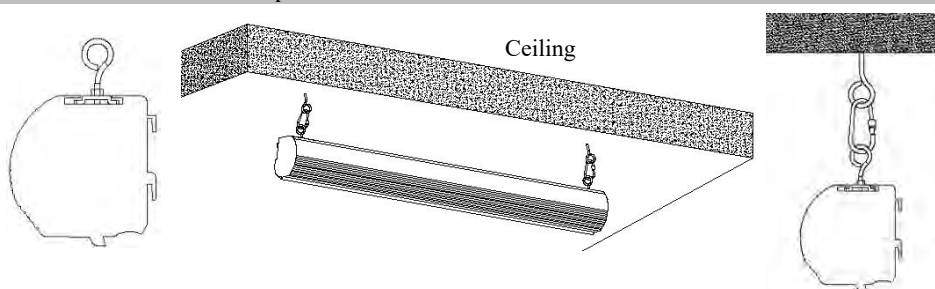
This mount method allows the screen to slide horizontally.



1. Determine where the screen will be installed. Then, measure and mark the distance between the top and bottom screw holes from each **Wall/Ceiling mount bracket (A)**.
2. Drill a hole on all marked areas and install the brackets with the **dry-wall anchor(C)**, **M5x60 screw (B)**, Make sure both brackets are properly leveled.
3. Hang the screen by placing the **lower** “catch” located on the back over the bracket’s **upper** “catch”.
4. After making sure the screen is secured, you can slide it left / right to properly center it in position.
5. Lastly, screw the **M5 screw (F)** into the upper hole of the bracket to add additional support for the screen

#### II. Suspended

1. Screw the **eyebolt (G)** on the **bracket connector (D)**.
2. Attach the **snap link (H)** through the **eyebolt (G)** and connect it to an eyebolt screw (not included) rated for the screen’s weight.

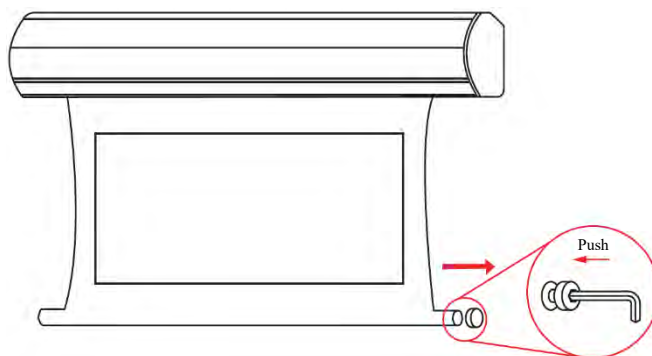




## Screen material tension adjustment

(4mm Allen Wrench required and not included)

Remove the weight bar end cap to expose the adjustment tension knob. This knob has a 4mm Allen port. Insert your 4mm Allen Wrench and push in the adjustment tension knob, turn clockwise and your screen will gain more tension. Turn the Allen Wrench counterclockwise and the screen will lose tension. Please note this adjustment is not necessary as the tension of the screen has been pre-set to its factory drop setting. If you would like to adjust the screen tension, please contact Elite Screens for assistance to avoid damaging the screen and voiding your warranty.

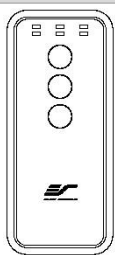
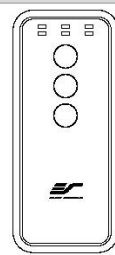
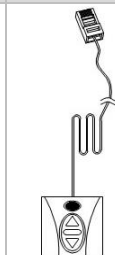
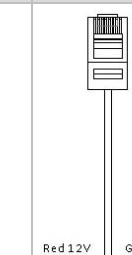


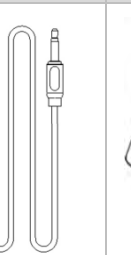



## Screen operation

**Electric Current:** Depending on region, your screen will operate on 110v, or 220v voltage.

1. After ensuring the power outlet & screen are compatible (voltage), plug the power cord into the power outlet.
2. Once the screen has power, you'll be able to control it using any of the 6 methods described below.

## Starling Tab-Tension CLR® Series | Controls and Accessories

A. IR Remote	B. RF Remote	C. Wall switch control box	D. 5-12-volt trigger cable	E. IR extended "eye" receiver	F. Wireless 5-12v trigger cable	G. AAA batteries	H. Bubble leveler
			 Red 12V Green 0V				

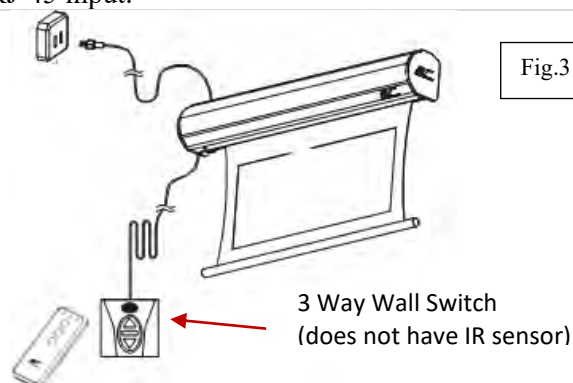
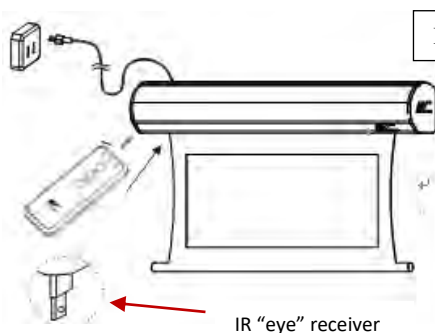
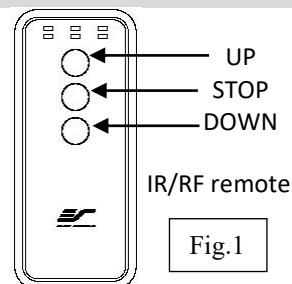
## 6 ways to control your screen

1. **IR remote control (Item A, Fig 1):** The Infrared functions by direct line of sight contact using a beam range of 30 feet. Aim the IR remote at the circular window located on the left side of the screen.

2. **IR "Eye" Receiver (Item E, Fig 2):** The IR "Eye" Receiver plugs directly into the screen's RJ-45 input to present a low-profile line-of-sight control option for your IR remote control. It is an extended eye-receiver to accommodate a recessed ceiling installation

3. **RF Remote Control (Item B):** The radio waves eliminate the need for a direct line of sight and has a range of 100 feet.

4. **3-Way Wall Switch (Item C, Fig 3):** The 3-way wall switch is a wall mounted control box with an up/stop/down button. It plugs directly into the screen's RJ-45 input.



**5. 5-12 volt trigger (Item D, Fig 4):** The built-in 5-12V trigger input allows your screen to synchronize its drop & rise with the projector's power cycle. The screen deploys when the projector powers up and will retract when the projector powers down. The 5-12 volt RJ45 cable connects to your projector's trigger output via a separate cable that may or may not be provided by the manufacturer of the projector. The trigger feature will not work without an output cable from the projector, but it can be tested by connecting the Red (+) and Green (-) cable to a 9-volt battery.

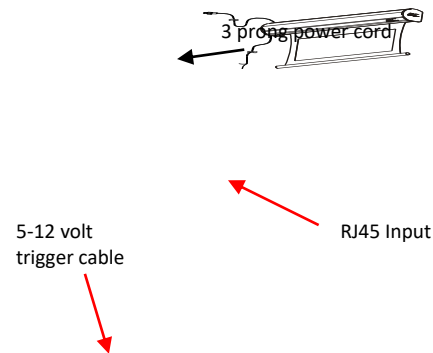


Fig.4

**6. Wireless 5-12 volt trigger (Item F, Fig 5):** The RF remote control serves as a dual purpose, independently as a handheld remote control, or as a Wireless 5-12 volt trigger using the trigger cable. The radio frequency technology can be programmed to send a wireless signal that synchronizes screen drop & rise with the projector's power cycle.

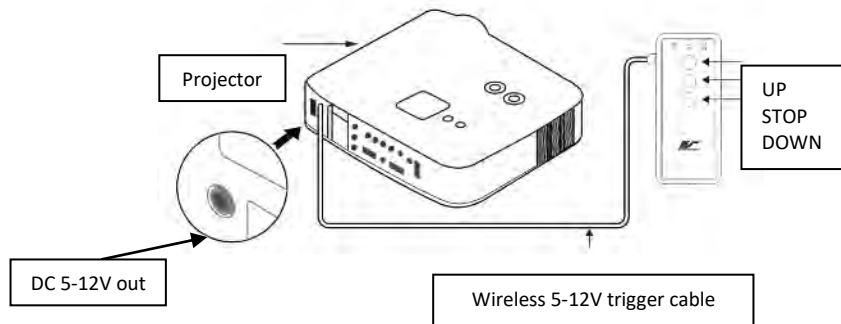


Fig.5

#### **Here's how to set up your Wireless 5-12 volt trigger | Synchronization Instructions**

- Step 1:** Connect one end of the 3.5 mm wireless 5-12 volt trigger cable to the RF remote.
  - Step 2:** Connect the other 3.5 mm end of the wireless 5-12 volt trigger cable to your projector.
  - Step 3:** Make sure to unplug your screen from the power outlet
  - Step 4:** Hold the UP button on your RF remote
  - Step 5:** While holding the UP button, plug the screen back to the power outlet
  - Step 6:** Wait 5 seconds and then release the UP button
  - Step 7:** Your 5-12V wireless trigger should now be activated with your screen and ready to be used and able to control your screen with your projector's power cycle
- Repeat the steps again if not successful.

*(Please be aware, the projector on/off cycle may take longer to fully activate. It usually takes around 20-30seconds for full off and on cycle each time)*

**For more information, technical support, or your local Elite Screens contact, please visit [www.elitescreens.com](http://www.elitescreens.com)**