Saker Tab-Tension CLR® 2 Series
Ceiling/Ambient Light Rejecting (CLR®/ALR) Electric Wall/Ceiling Projection Screen
User's Guide

Product Description

The *Saker Tab-Tension CLR® 2* Series is an electric projection screen that uses Elite Screens Ceiling Light Rejecting® technology. The screen material included is our *CLR® 2* (Ceiling Light Rejecting) which is a front projection material designed to work with ultra and short throw projectors. The reflection layer concentrates the projector's light back to the viewer and does not scatter which can add unwanted light to your picture. to absorb overhead lighting and is precisely formulated for environments with minimal control of overhead room lighting.

Its lenticular lens structure **enhances picture brightness** and **improves contrast levels** in ambient light room environments. The *CLR® 2* is best for family rooms, educational facilities, conference rooms, house of worship 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) Gently wipe the screen with a moistened microfiber cloth with mild soap diluted in water.

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 distance. There is NO extra Black Top Drop in the roller. Please be aware of this as it will void 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 void your warranty. For more information, please contact our Technical Support Department at techsupport@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, 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 not 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 overheat.
- 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.

WARNING
The Screen's **Top Black Drop** is already set to its maximum drop distance. There is **NO** extra top black drop in the roller. Please be aware of this as it will void the limitation of your warranty.

Individual modifications to this product are prohibited and will void the warranty with the supplier. Please contact Elite Screens Customer Service for 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.

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 which may cause interference.**
- ✓ **Increase the separation between the screen and the device's receiver.**
- ✓ **Connect the equipment into a different power outlet other than the device.**

Pre-Installation
1. Carefully unpack the screen.
2. Always handle the screen in a leveled position on a clean surface.
3. In order to protect the screen from exposure to stains, keep the screen out of contact with foreign particles such as dust, sawdust, and/or liquids.
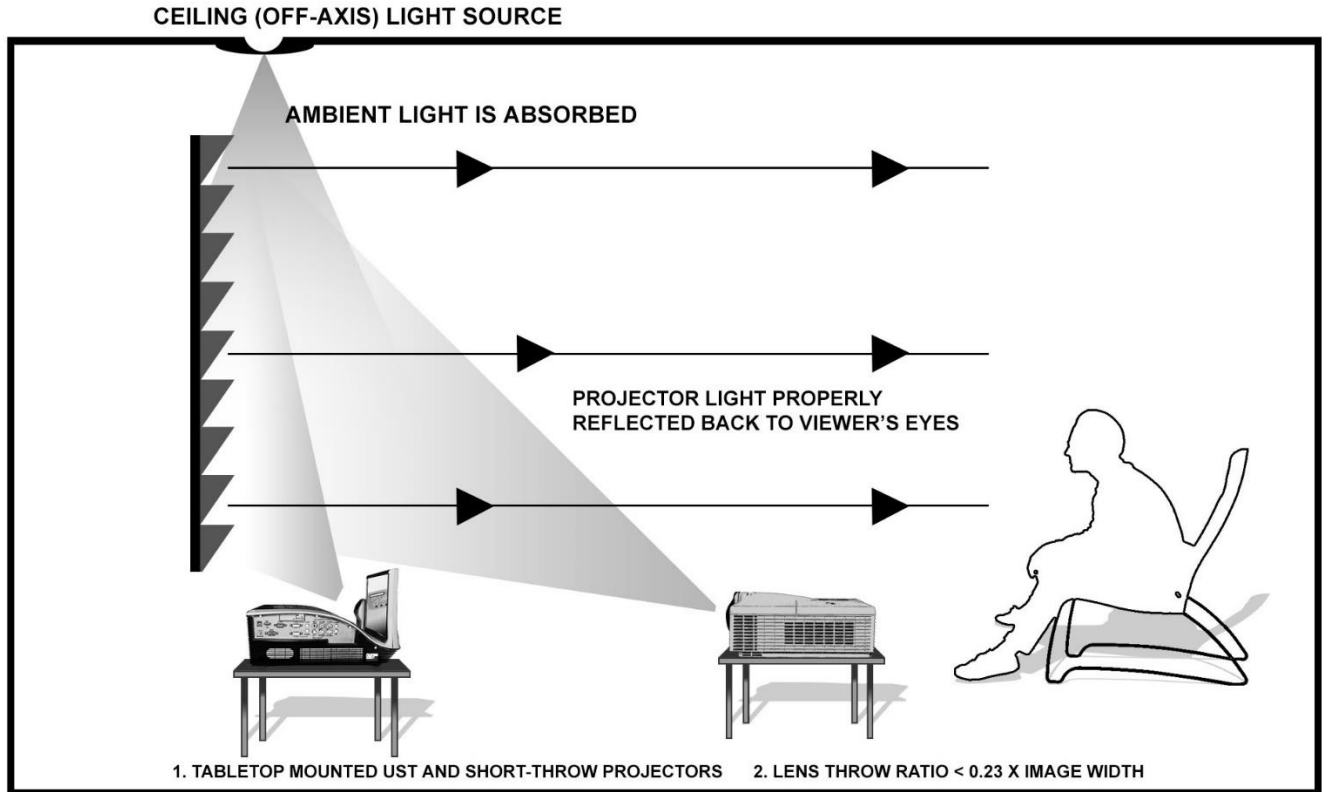
NOTE
Regardless of the mounting method, the screen should be securely supported so that the vibration or pulling on the viewing surface will not cause the casing to become loose or fall. The installer must ensure that the fasteners used are of adequate strength and suitable for the installation location. Included mounting screws are complimentary and may not be appropriate for all mounting surfaces. Use appropriate anchors to safely secure the screen to the mounting surface or consult with a professional installer.

<u>**Notice to Installer:**</u>

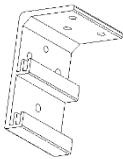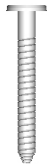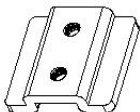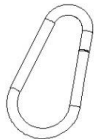# Material Tip: Proper Projector Placement for CLR®2

The *CLR®2* is exclusively for table-mounted *ultra* and *short throw* projectors as illustrated in example 1 below. 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.

CEILING (OFF-AXIS) LIGHT SOURCE

AMBIENT LIGHT IS ABSORBED

PROJECTOR LIGHT PROPERLY REFLECTED BACK TO VIEWER'S EYES

1. TABLETOP MOUNTED UST AND SHORT-THROW PROJECTORS   2. LENS THROW RATIO < 0.23 X IMAGE WIDTH

ULTRA SHORT THROW (UST) & SHORT THROW PROJECTOR ILLUSTRATION

Hardware Parts List

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

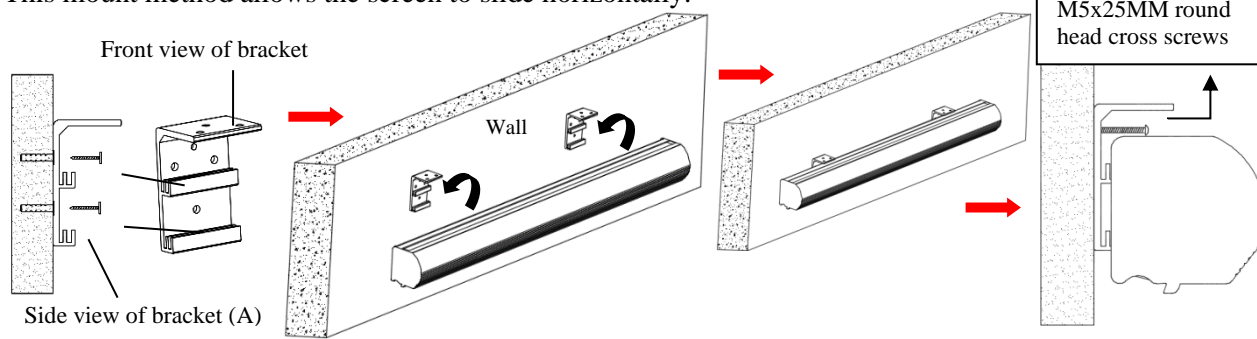| A. Wall/Ceiling mount bracket x2	B. M5x60 Screw x6	C. M12 Dry-wall anchor x6	D. Bracket connector x2 (installed on housing)	E. M5x11 Bolt Screw x4	F. M5x25mm round head cross screws x2	G. M5x30mm eyebolt screw & M5 nut x2	H. Snap link x2

Installation Instructions

*For installation assistance, please consult a professional Installer. 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.

Front view of bracket

Wall

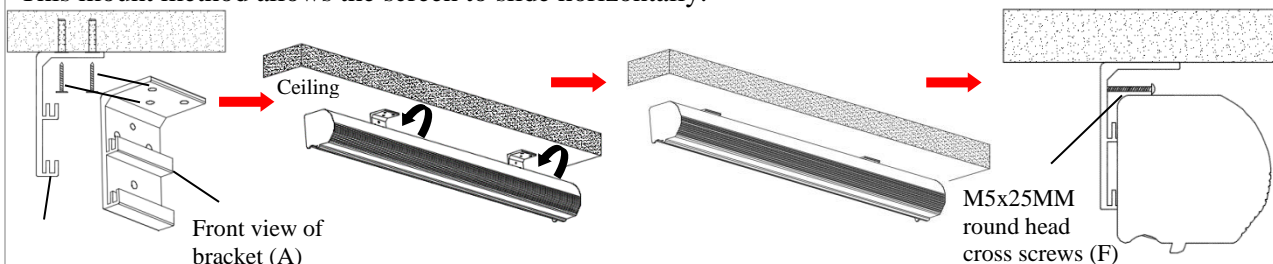M5x25MM round head cross screws

Side view of bracket (A)

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 ***downward*** "catch" located on the back over the brackets ***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

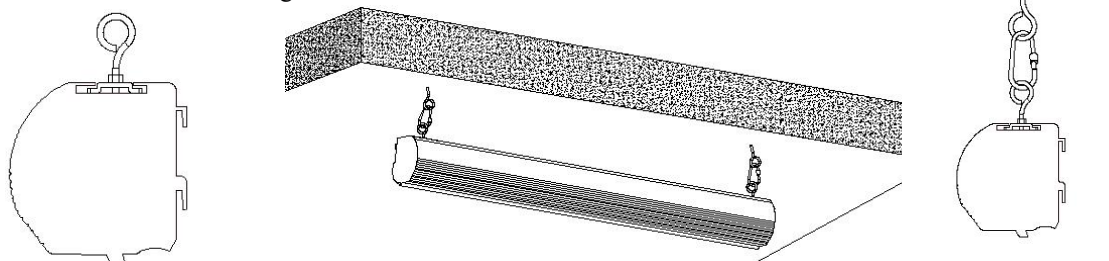### Ceiling Mount (movable position)

This mount method allows the screen to slide horizontally.

Ceiling

Front view of bracket (A)

M5x25MM round head cross screws (F)

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 ***downward*** "catch" located on the back over the brackets ***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.
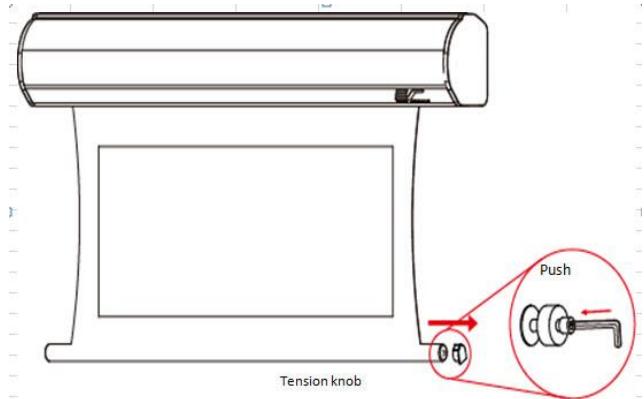
II. Suspended

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. Insert your 4mm Allen Wrench to push in the adjustment tension knob, turn clockwise and your screen will gain more tension. Turn the Allen Wrench counter clockwise and the screen will lose tension. Please note this adjustment is not necessary as the tension of the screen has been set to its factory setting for best performance. Please contact Elite Screens for assistance to avoid damaging the screen and voiding your warranty.

Saker Tab-Tension CLR® 2 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				

Screen operation

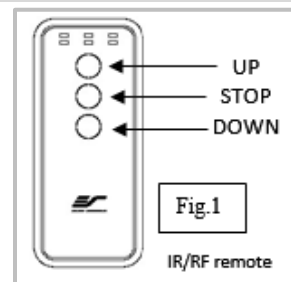**Electric Current**: Depending upon region, your screen will operate on 100v, 110v, or 220v voltage.
1. After ensuring the power outlet & screen are compatible (voltage), plug the power cord into the power outlet.
2. Once the screen has power, you'll be able to control it using any of the 6 methods described below.
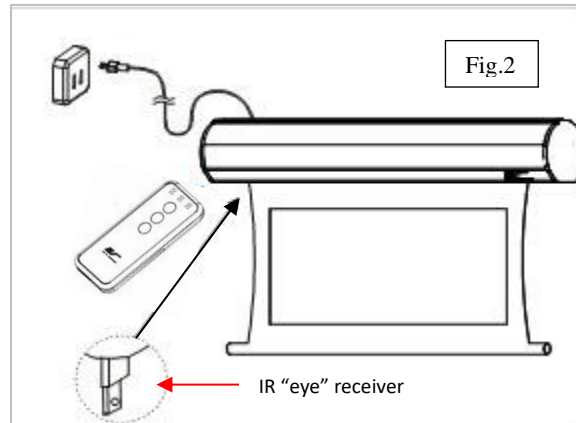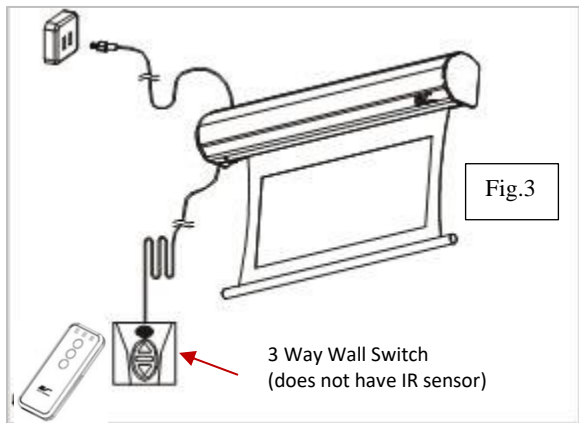
6 ways to control your Saker Tab-Tension

1. *IR remote control* (**Item A, Fig 1**): The Infrared functions by direct line of sight contact with 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 even in a recessed ceiling installation.
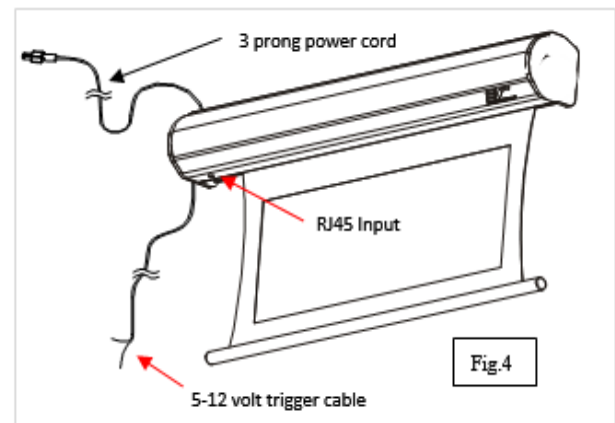
3. *RF Remote Control* (**Item B**): The radio waves eliminate the need for a direct line of sight with a range of 100 feet.

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

Fig.3

3 Way Wall Switch
(does not have IR sensor)

Fig.2

IR "eye" receiver

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.

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 in conjunction with the Wireless 5-12 volt trigger cable. The radio frequency technology can be programmed to send a wireless signal to synchronize its drop & rise with the projector's power cycle.

3 prong power cord

RJ45 Input

Fig.4

5-12 volt trigger cable

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

Step1: 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
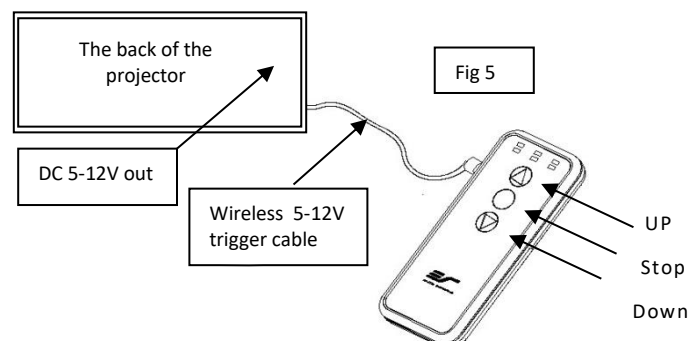**Step 5:** While holding the UP button, plug the screen back to the power outlet
Step 6: Wait 5 seconds and then release the UP button
Step 7: Your 5-12V wireless trigger should now be activated with your screen and ready to be used and able to control your screen with your projector's power cycle
Repeat 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)

The back of the projector

Fig 5

DC 5-12V out

Wireless 5-12V trigger cable

UP

Stop

Down

For more information, technical support or your local Elite Screens contact, please visit www.elitescreens.com