

## **Starling Tab-Tension 2 Series**

Electric Wall/Ceiling Projection Screen

### For: CineWhite<sup>®</sup> (Matte White) and CineGrey 4D (Ceiling Ambient Light Rejecting) models

User's Guide – H Type (RC1)

V1.0

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#### 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 drop material in 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<sup>®</sup>. 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 <u>www.elitescreens.com</u>

- 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, 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

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 ensure that proper mounting hardware is used to provide adequate strength suitable for the installation. Elite Screens is not liable for any faulty installations.

Individual modifications to this product are prohibited and will void the manufacturer's warranty. Please contact the Elite 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 screen may suffer from RF 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 casing 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 this product in an outdoor environment. Avoid areas with wind blowing directly on the screen as this can distort the projection image.

**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 your installation. Always use the correct anchors to safely secure the screen and always consult a professional integrator.

Please make sure all parts listed below are included before proceeding with the installation.											
A. Wall/Ceiling mount bracket x2	B. M5x60mm Screw x6	C. M12 Dry-wall anchor x6	D. Bracket connector x2 (Installed on the housing)	E. M5x11mm 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:

#### For CineGrey 4D models only

Please use the following installation instructions to obtain superior optical performance from the CineGrey 4D Angular Reflective ALR (Ambient Light Rejecting) Screen.

Make sure to follow these instructions in order for the CineGrey 4D to perform correctly.

- Angular-Reflective material is not compatible with ultra/short-throw projectors
- Minimum lens throw ratio 1.5x image width For standard long throw projectors only.

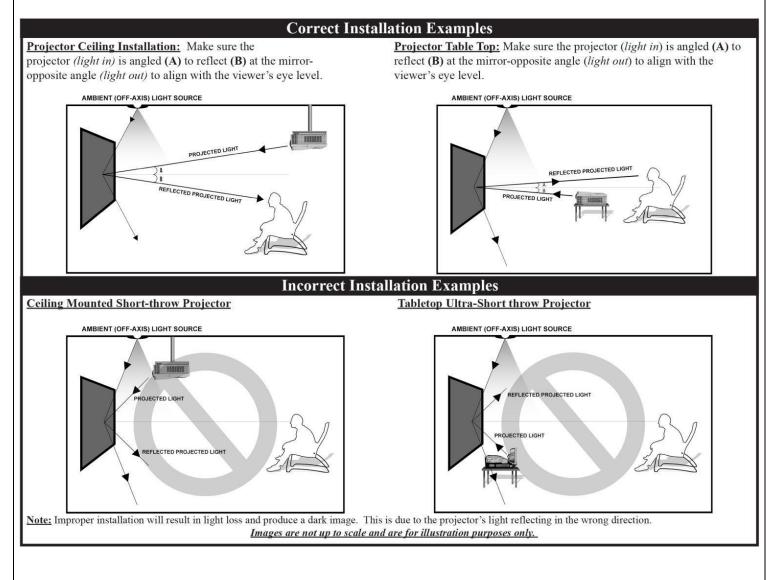
#### Not compatible with Ultra-short or Short-throw projectors.

• Ambient light must not come from the same direction as the projector

# Since angular-reflective means that the projected image will reflect at the mirror-opposite angle, it is important to position the projector so that the viewer will get the best possible image.

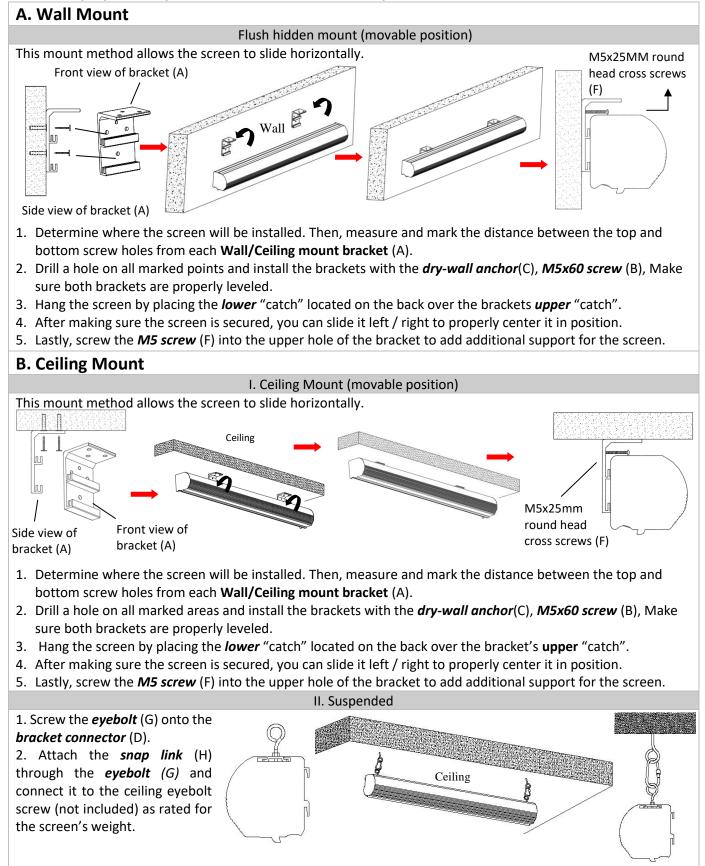
Step 1: Establish the general "eye level" of the viewers.

Step 2: Set the appropriate projection level.



#### Installation Instructions

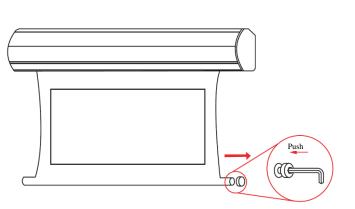
For installation assistance, please consult a professional Installer. Elite Screens<sup>®</sup> is not liable for faulty installations. **Two or more people are required while one holds the screen in place.** 



#### 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<sup>®</sup> for assistance to avoid damaging the screen and voiding your warranty.



Starling Tab-Tension   Controls and Accessories										
A. IR Remote ZRC1-IR	B. RF Remote ZRC1-RF	C. Wall box controller ZRC1-WB	D. RJ50 Cable ZZR1-RJ50	E. AAA batteries	F. Bubble Level					

#### Screen operation

Electric Current: 110v

- 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 5 methods described below.

#### 5 Ways to control your Starling Tab-Tension screen

1. IR Remote control (Item A, Fig 1): The Infrared functions by direct line of sight contact using an effective beam range of 25 feet within a 30-degree angle. Aim the IR remote directly at either the IR receiver on the Wall Box Controller or on the screen to operate the screen.



Note: Assure there is no obstruction between the IR remote and IR receiver.

2. RF Remote Control (Item B): The radio waves eliminate the need for a direct line of sight and has a longer distance control range.

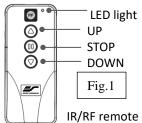
The RF remote is already pre-synced/paired and ready to use. If synchronization/ pairing is needed, please follow the steps below.

#### How to synchronize/pair a new RF remote:

- Press & hold the "**Programming Key**", then press the "**Up Key**" on the **Wall box controller** (wall-box LED flashes). Reference the wall box controller section for programming key location.
- Then press the "Up Key" on the RF remote.
- The **Wall box** LED will flash 5 times, to indicate the RF remote has been properly synchronized/paired.



IR Lens (IR remote only)



How to change the RF code (For use when multiple screens/RF remotes are owned)

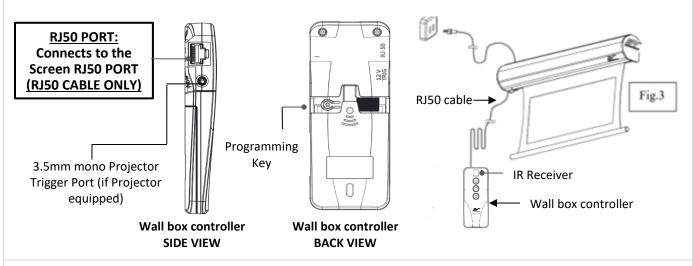
Changing the RF code avoids controlling multiple screens at the same time and prevents electrical interference leading to accidental control of the screen.

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- 1. Remove the batteries
- 2. Change the RF code switch
- 3. Insert the batteries
- 4. Synchronize it with the wall box controller

RJ 45 12V Slide Switches for RF Code change Battery compartment Ω **RF Remote** Default **BACK VIEW** "000" MSB LSB

3. Wall box controller (Item C, Fig 3): The wall box controller switch is a wall mounted control box with an up/stop/down button. It plugs directly into the screen's RJ50 port.



4. Wired 5-12 volt trigger: Requires a 3.5mm to 3.5mm mono cable (not included)

Step 1: Connect one end the RJ50 cable to the screen and the other end to the Wall box controller.

**Step 2**: Then connect one end the 3.5mm mono cable to the wall box controller and the other to the projector.

Once the two cables have been connected, the wired trigger feature RJ50 cable is ready to synchronize the screen's up/down operation with the projector's power cycle.

> 3.5 mm port DC 5-12V out

- Projector on, screen drops
- Projector off, screen raises

Fig. 4

Wall box controller

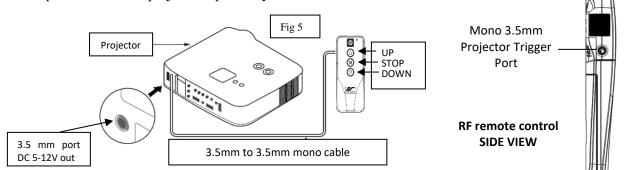
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3.5mm to 3.5mm mono cable

Projector

5. Wireless 5-12 volt trigger (Fig 5): Requires a 3.5mm to 3.5mm mono cable (not included).

The Radio Frequency (RF) remote control serves as a dual purpose, independently as a handheld remote control, or as a Wireless 5-12 volt trigger. The radio frequency technology sends a wireless signal that synchronizes the screen's drop & rise with the projector's power cycle.



#### Here's how to set up your Wireless 5-12 volt trigger

The 5-12V wireless trigger should already be synced and ready to work.

Step1: Connect one end of the 3.5 mm mono trigger cable to the RF remote.

Step 2: Connect the other 3.5 mm mono end of the cable to your projector

Step 3: Turn on the projector and the screen should automatically deploy.

Step 4: Turn off your projector and the screen should automatically retract.

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

**Note:** If the wireless trigger feature does not work, please resync the RF remote to the Wall box controller per the instructions in the Radio Frequency remote section.

#### ADVANCED Programming Key Instructions: (FOR ADVANCED USERS ONLY)

Wall box controller must be connected to the screen.

ATTENTION: Reducing the factory's full screen drop may produce waves/wrinkles on the projection surface on tab-tension screens. The full drop is recommended to allow the screen to rely on the tab-tension system to maintain the projection surface flat and taut on all sides.

The same applies on non-tensioned screens, although some level of waves may be present due to the nature of the screen not being tensioned. If wrinkles/waves develop after making the adjustment to the desired drop position, reset it to the factory's default position per the instructions below.

#### 1. Preset the Screen's Drop Position:

Use the RF/IR remote or Wall Box Controller to Drop the screen to the desired position you want to set it at. Press & hold the "**Programming Key**", then press the "**down key**" on the Wall Box Controller. The LED will flash 5 times to confirm new programmed drop position.

#### **PROGAMMING NOTE:**

The programmed vertical drop position will have +/- 2" tolerance, which will depend on the temperature of the installed screen environment.

2. <u>Clear/Reset the Screen's Drop Position to factory default</u>: Press & Hold the "**Programming Key** + "**Stop key**" on the wall box controller.

# For more information, technical support or your local Elite Screens<sup>®</sup> contact, please visit <u>www.elitescreens.com</u>