



Spectrum Series

Electric Wall/Ceiling Projection Screen

Featuring **MaxWhite® 2** (matte white) front projection material User's Guide (Z - Type)

Thank you for choosing the **Spectrum®** Series projection screen! The screen material included is our **GREENGUARD GOLD** and **ISF Certified MaxWhite 2®** which is a front projection material, for environments with light control.

In order for the **MaxWhite® 2** 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 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.

- 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 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.

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 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.**

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.

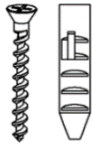

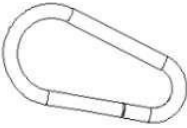

NOTE

Wall screws 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. 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.

Hardware and Controls Accessories List

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

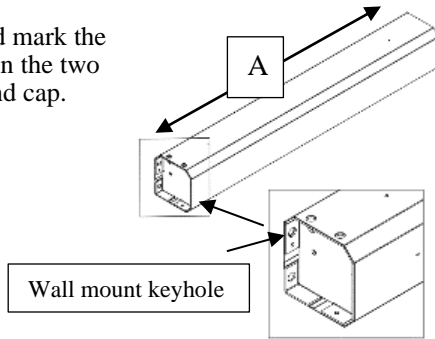
A. Screw/Anchor x 4	B. Washer x 4	B. Snap link x 4	C. M6.5 eyebolt screw x 4
			

Installation Instructions

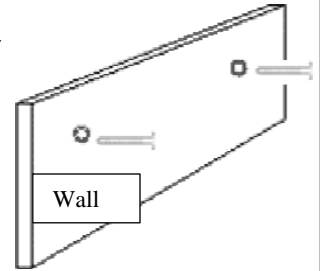
For installation assistance, please consult a professional Installer. Elite Screens is not liable for faulty installations.

A. Wall Mount (flushed)

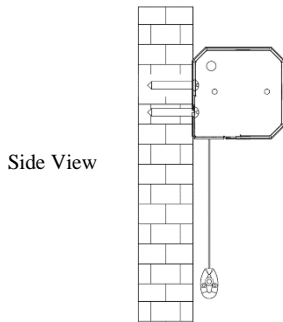
Step 1: Measure and mark the (A) distance between the two keyholes on each end cap.



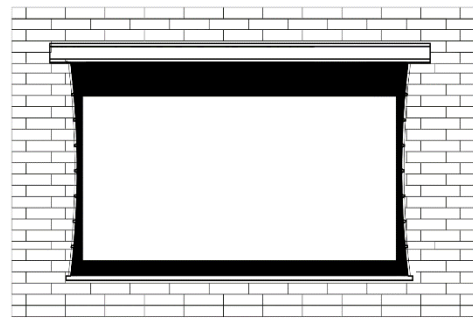
Step 2: Drill a hole for each screw hole on the marked areas. Insert a **dry-wall anchor** into the wall. Then screw the **M5x70 Screw** in each **dry-wall anchor** and leave about 1/8" of an inch.



Step 3: Hang the screen by aligning the end cap keyholes to the M5x70 screws.

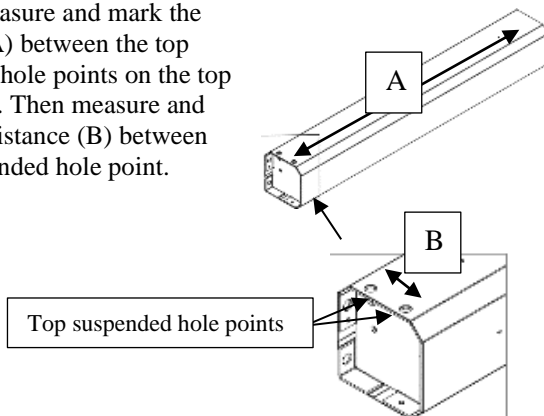


Step 4: Make sure the screen is leveled to complete the installation.

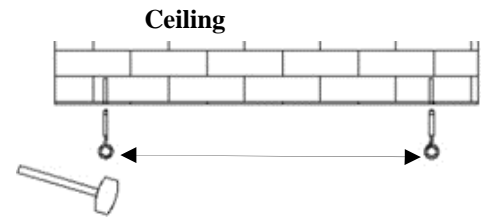


B. Ceiling Mount (suspended)

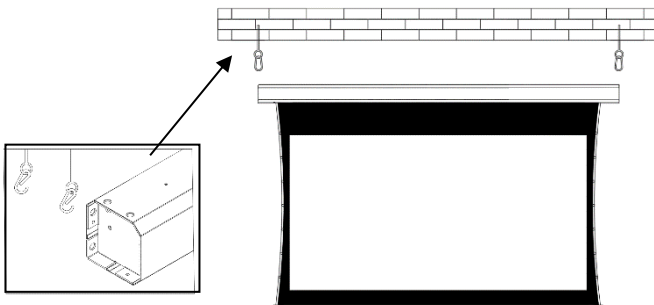
Step 1: Measure and mark the distance (A) between the top suspended hole points on the top of the case. Then measure and mark the distance (B) between each suspended hole point.



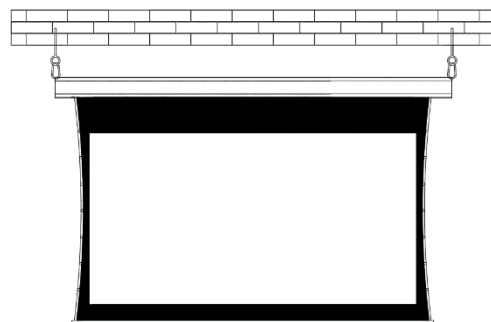
Step 2: Drill a hole on all marked areas and insert the **M6.5 eyebolt screw** into the hole, then secure it in place with a mallet/hammer.



Step 3: Attach the snap link through the eyebolt and connect on the suspended hole points.



Step 4: Make sure the screen is leveled to complete the installation.

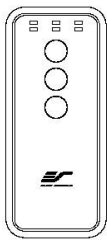



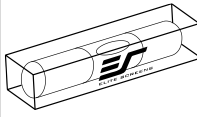
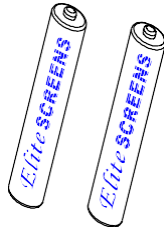


Screen operation

Electric Current: Depending upon region, your Elite Screen will operate on 100V, 110V, or 220V voltage.

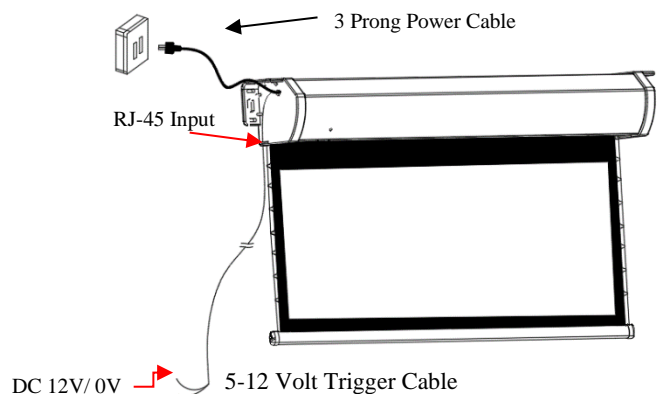
1. After ensuring the power outlet & screen are compatible (voltage), plug the power cord into the power outlet.
2. Once the screen has power, you'll be able to control it using any of the 3 ways described below:

Accessories included for Spectrum Series

A. IR remote x 1	B. 3-way wall switch x 1	C. 12-volt trigger cable x 1	D. IR "Eye" Receiver x 1	D. Bubble level x 1	E. AAA batteries x 2
		 <p>Red 12V Green 0V</p>			

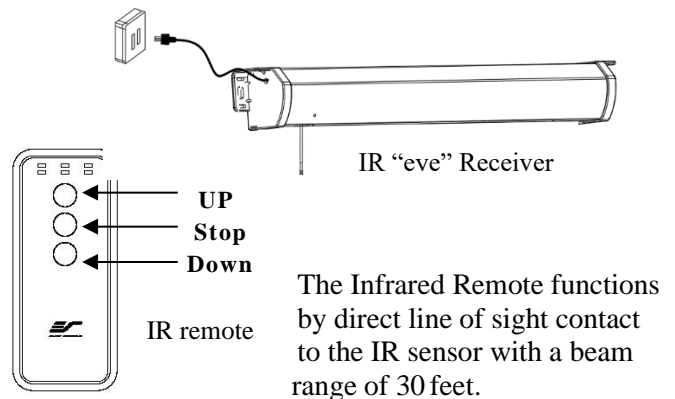
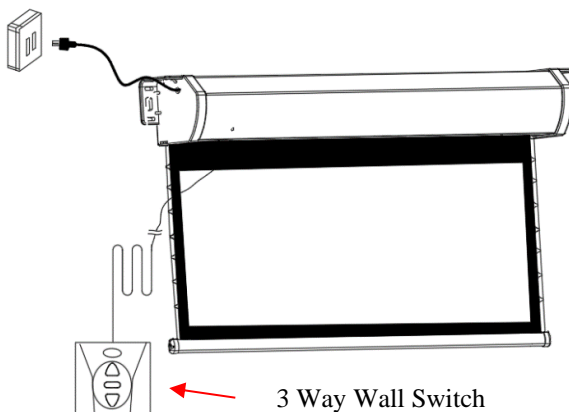
Control System for Spectrum Series

1. 5-12V Trigger (Item A): 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 adaptor 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.



2. 3-Way Wall Switch: 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.

3. IR Remote control and IR "Eye" Receiver (Item A/D): 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.



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

SCREEN MATERIAL DISCLAIMER

At first, the screen material may have a series of noticeable horizontal lines on its surface. These are known as memory lines. Memory lines are caused when the pliable projection material is rolled up and stored for the duration between its production and sale. This is both a normal and correctable phenomenon. For non-tensioned screens, you may also notice curling along the edges of the material. This is mainly due to environments in cold temperatures. Please try the following to alleviate the memory lines and side curls on the material. After installation, leave the screen in the down position for a few days in a warm room environment (above 75 degrees) and then commence regular (up/down) usage. This allows the material to stretch out and cure itself. After a few days, the lines should vanish and the edge curling will alleviate and will neither return nor affect the projected image during the years of its use.

Direct Sunlight Disclaimer

Projection Screens from any maker are not designed for use as a window curtain and should never be exposed to direct sunlight. Prolonged exposure to solar radiation will destroy synthetic materials and such damage is not covered by our standard warranty.

See examples below.



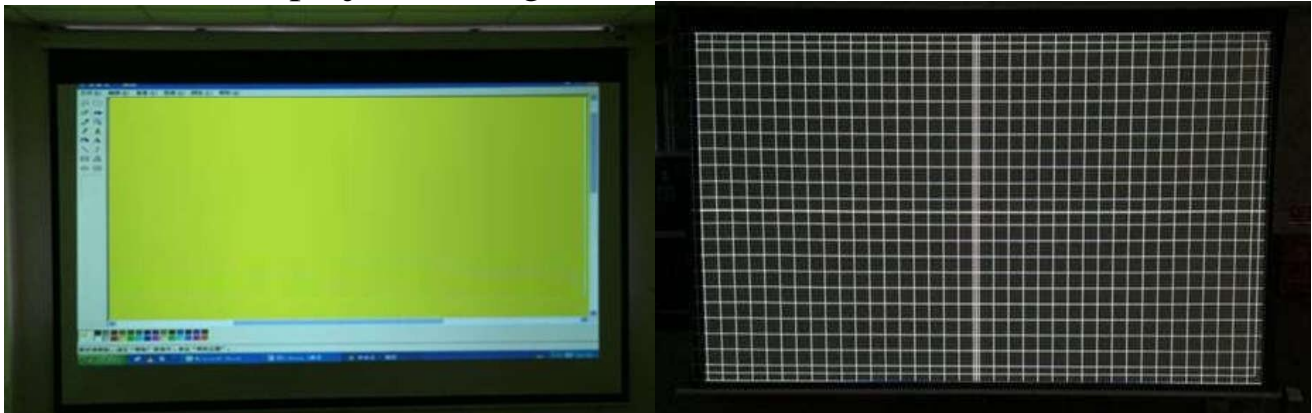
SHORT THROW PROJECTION DISCLAIMER

Using a *short throw projector* on a *non-tensioned* type screen will result in image distortion as the slightest wave on the viewing surface will become more evident.

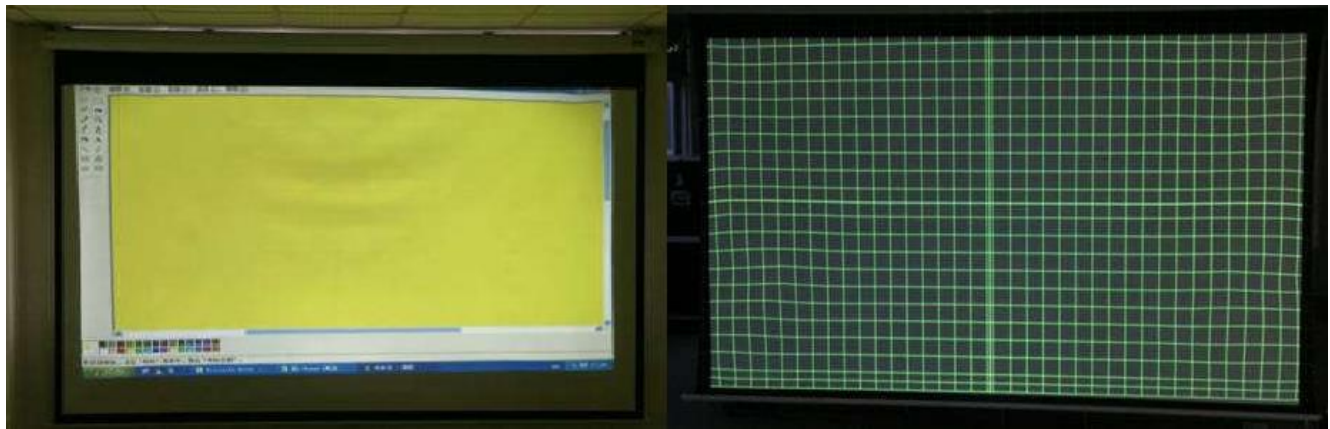
For *short throw projectors*, Elite Screens recommends the use of a **motorized tab-tensioned, fixed frame or whiteboard** projection screen.

Examples of undoctored projection images using a *standard throw* and *short-throw* projector

Standard throw projected image shown below (waves are not visible)



This *short throw* projected image shown below, demonstrates how waves on the surface become more pronounced:



Actual Projection Images of same Elite Screens model with *Standard Throw* Projector (Model# ViewSonic Pro8300) vs. *Short Throw* Projector (Model # BenQ W710ST)