Evanesce B Series

In-Ceiling Electric Motorized Front Projection Screen

User's Guide – E/H type (RC1) V1.0

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.

- 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, inclined surfaces;
- Do not install in damp places to avoid an electric shock or short circuit.
- Do not place any heavy objects over the power cord.
- Position the power cord properly to avoid creating a trip obstacle.
- To avoid an electrical shock or fire, due to a loose contact or short circuit, do not overload the power cord.
- The internal & external parts of this unit are not end user serviceable. 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 that 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 over heat.
- Do not handle the power plug when your hands are wet or your feet are in contact with water.
- Properly dispose of this equipment according to the environmental regulations in your area when product is no longer of service.

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 sun light, 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.
- To avoid possible injury and/or an electric shock, do not attempt to use this screen if there is obvious damage or if there are any evident broken parts.

Installation Warning

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.

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 be casing the interference.**
- ✓ **Increase the separation between the screen and the device's receiver.**
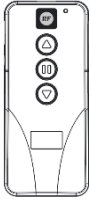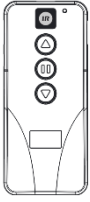- ✓ **Connect the equipment into a different power outlet other than the device.**
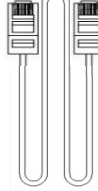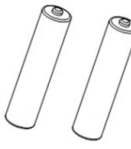
Pre-Installation

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

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 the fasteners that are used are of adequate strength and suitable for the installation location.

Evanesce B| Controls and Accessories

| A. IR Remote ZRC1-IR	B. RF Remote ZRC1-RF	C. Wall box controller ZRC1-WB	D. RJ50 Cable ZRC1-RJ50	E. AAA batteries	F. Bubble Level

Screen operation

Electric Current: 100 ~ 110v 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 5 methods described below.

5 Ways to control your Evanesce B 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.
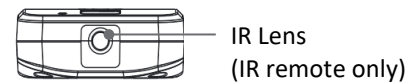
Note: Assure there is no obstruction between the IR remote and IR receiver.

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.
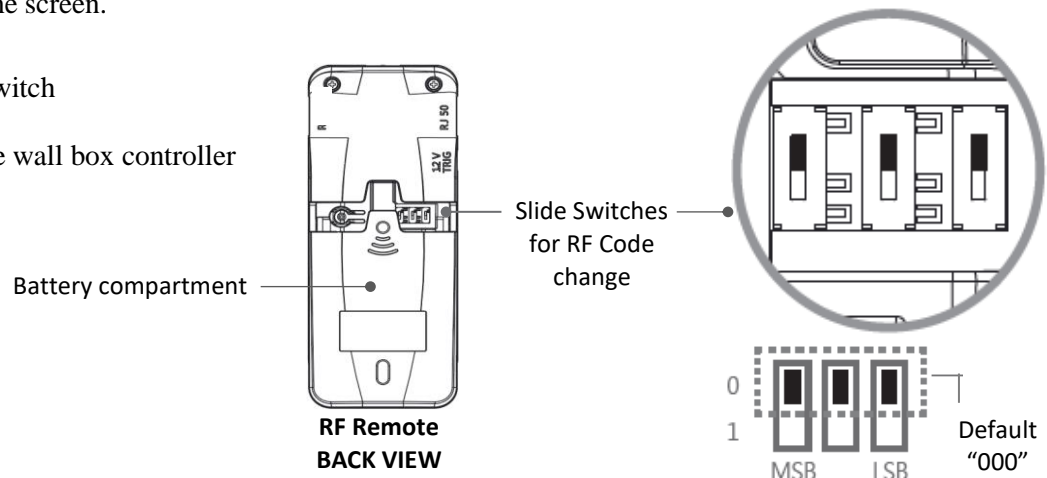
IR Lens (IR remote only)

LED light
UP
STOP
DOWN

Fig.1
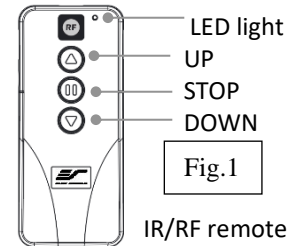
IR/RF remote

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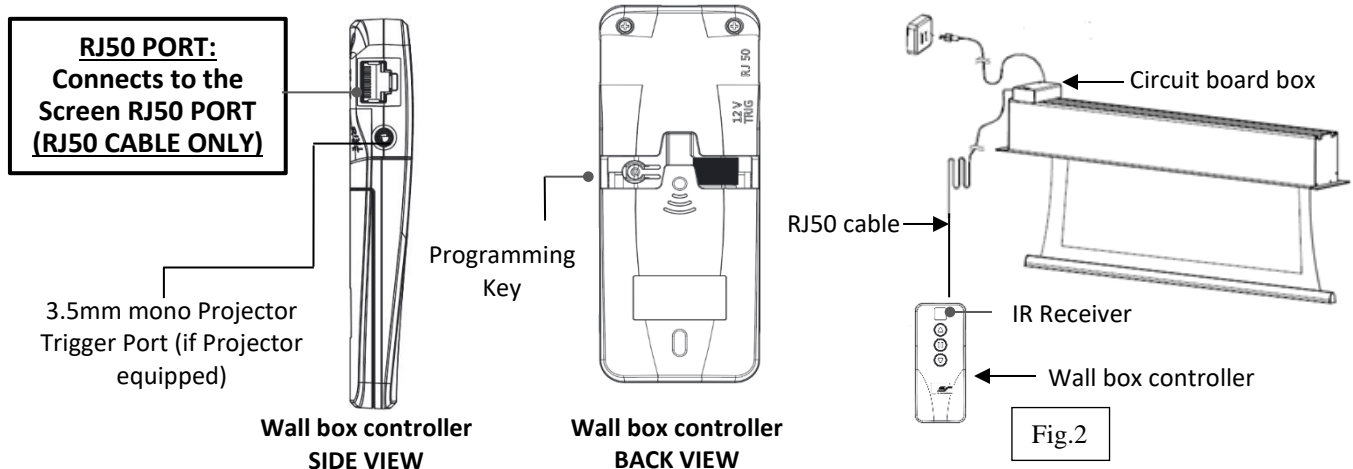
How to change the RF code (For use when multiple screens/RF remotes are owned)

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

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

12V TRIG
RJ50

Slide Switches for RF Code change

Battery compartment

RF Remote BACK VIEW

0
1

MSB   LSB

Default "000"

3. *Wall box controller* (**Item C, Fig 2**): 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.

RJ50 PORT:
Connects to the
Screen RJ50 PORT
(RJ50 CABLE ONLY)

3.5mm mono Projector
Trigger Port (if Projector
equipped)

Programming
Key

Circuit board box

RJ50 cable

IR Receiver

Wall box controller

Wall box controller
SIDE VIEW

Wall box controller
BACK VIEW

Fig.2

4. *Wired 5-12 volt trigger* (**Fig 3**)*:* Requires a 3.5mm to 3.5mm mono cable (not included)
Step 1: Connect one end of the RJ50 cable to the screen and the other end to the Wall box controller.
Step 2: Then connect one end of 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 is ready to synchronize the screen's up/down operation with the projector's power cycle.
- Projector on, screen drops
- Projector off, screen raises

Fig. 3

RJ50 cable

Projector

Wall box controller

3.5 mm port
DC 5-12V out

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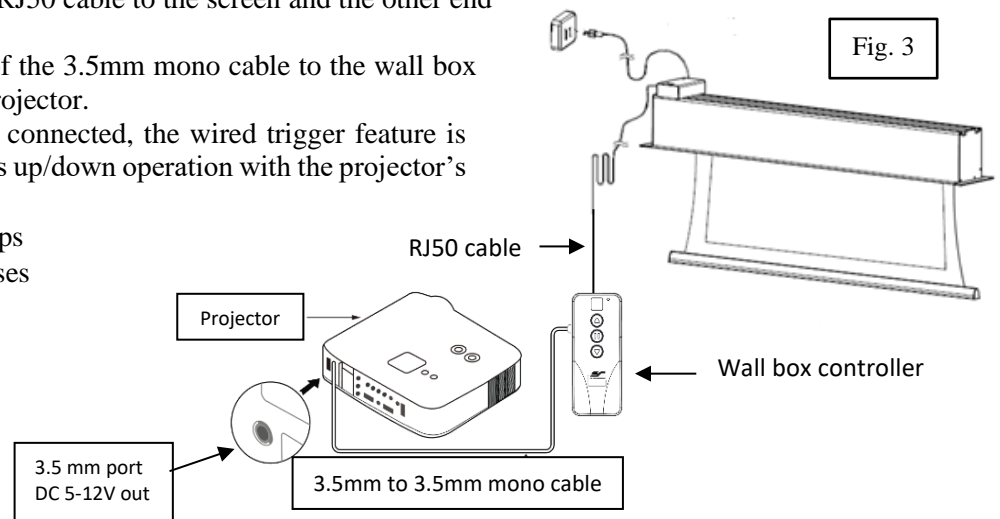
5. *Wireless 5-12 volt trigger* (**Fig 4**): Requires a 3.5mm to 3.5mm mono cable (not included).

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.

Fig 4

Projector

UP
STOP
DOWN

Mono 3.5mm
Projector Trigger
Port

3.5 mm port
DC 5-12V out

3.5mm to 3.5mm mono cable

RF remote control
SIDE VIEW
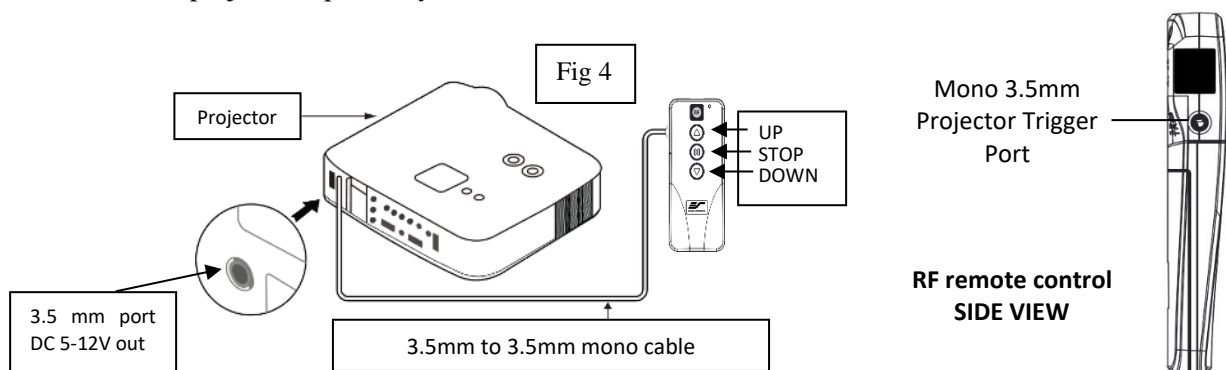
Here's how to set up your Wireless 5-12 volt trigger

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- 30seconds 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.**
>
> **FLATNESS AFFECTED BY NEW PROGRAMMED VERTICAL POSITION IS NOT COVERED UNDER A REPLACEMENT WARRANTY.**

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.
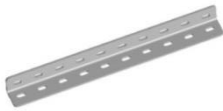
> **PROGAMMING NOTE:**
> The programmed vertical position relies on a time-count which adjusts itself according to the programmed timed difference. Multiple up/down programming will result in the vertical position being off a few inches. It is recommended that programming is done the **first-time** the desired vertical position is determined or RESET it to factory default and programming the desired vertical position afterwards.

2. Clear/Reset the Screen's Drop Position to factory default:

Press & hold the "**Programming Key +** "**Stop key"** on the wall box controller.

Hardware Parts List for Evanesce B Series

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

Hardware Parts List for above ceiling installation		
A. Hanging Bracket x 2	B. Suspension Bar x 4	C. End Flange x 2
D. M6x13mmx2mm washer x 8	E. M6 nut x 4	F.M6x20mm screw x 4
G. M8x16mmx1.5mm washer x 8	H. M8 nut x 4	I.M8x40mm screw x 4

Installation Instructions

The Evanesce B allows access for above or below ceiling installation. Please follow the instructions described in the following steps below for your type of installation.

Power

The Evanesce B Series includes a 3-Prong Power Cord (2-Prong Power Cord for some countries) for use in a non-concealed power outlet. If your installation will be entirely concealed (including power outlet), Elite Screens strongly recommends a hardwire connection. Please refer to the image below for both 110v & 220v wiring information.
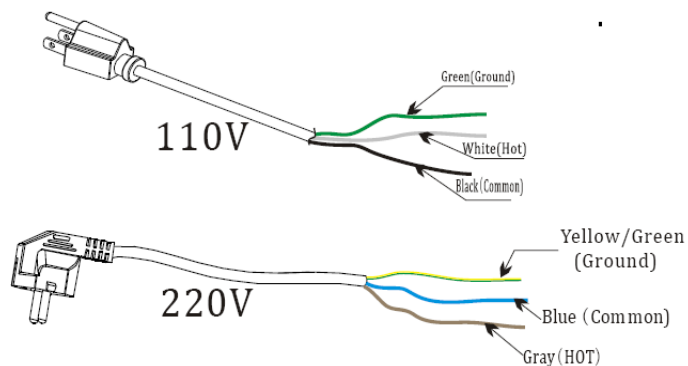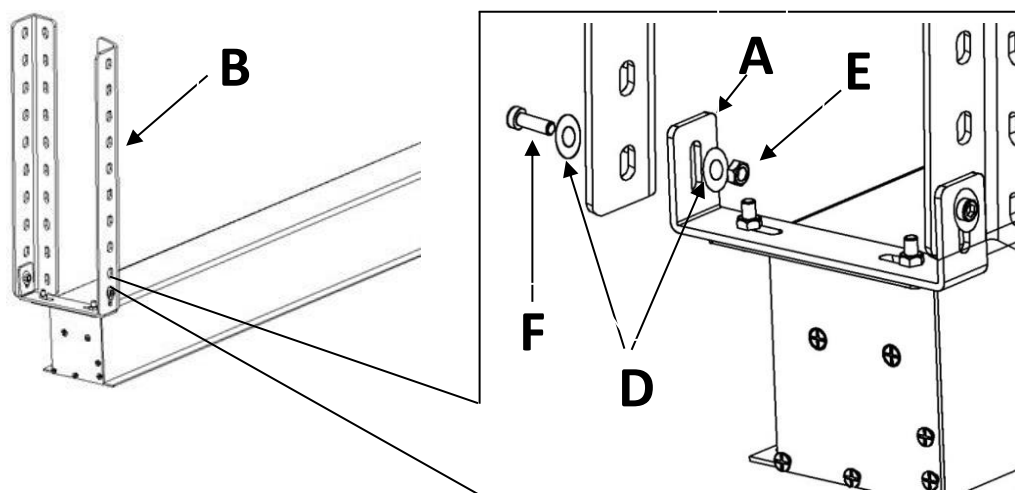

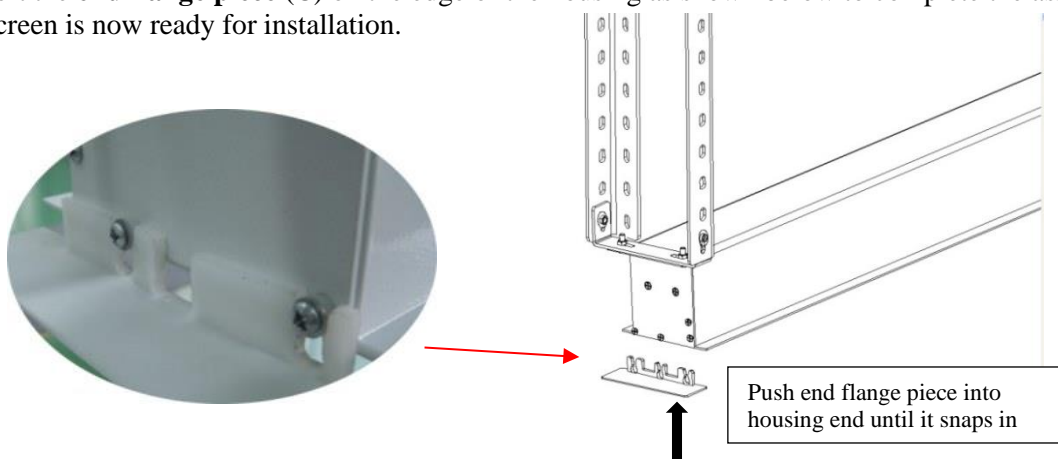## A. Above Ceiling Installation Instructions

Assembly

1. Place the **hanging bracket** (A) over the left and right side ends of the housing and secure each one using the **M8x40mm hex screw** (I), **M8x16mmx1.5mm washers** (G) and **M8 nut** (H) as shown below.
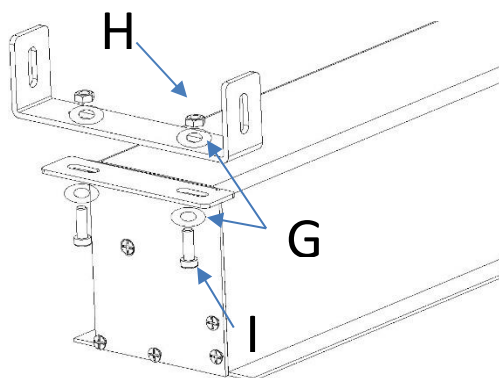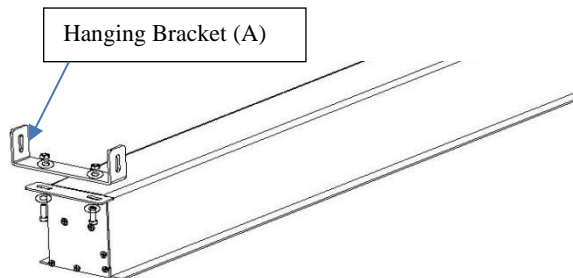
2. Place the **Suspension Bar** (B) over the **Hanging Bracket** (A) and align with the hole as shown below according to the height requirement for your installation area. Secure the **Suspension Bar** (B) with the **M6x20mmScrew** (F), **M6x13mmx2mm Washer** (D) and the **M6 Nut** (E). Repeat the process for the other side.
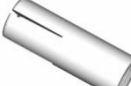

3. Insert the **end flange piece** (C) on the edge of the housing as shown below to complete the assembly. The screen is now ready for installation.


Push end flange piece into housing end until it snaps in

B. Below ceiling installation instructions
Please make sure all parts listed below are included before proceeding with the installation.

Hardware Parts List for below ceiling installation			
A. End Flange x 2	B. Hanging bracket x 2	C. Threaded rod x 4	D. Socket wrench x 1
E. M8x16mmx1.5mm washer x 28	F. M8 nut x 20	G.M8 Top expanding bolt x 4	H. M8x40mm hex screw x 4

1. Measure and cut the ceiling installation slot:
    The width should not exceed 100mm and not less than the width of the screen's housing. Measure the length of your screen to determine the length.

Ceiling Truss

Ceiling

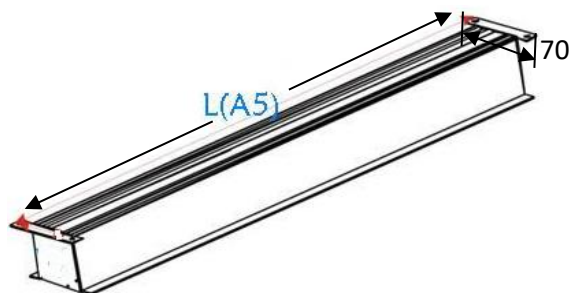Screen installation slot

100

Ø10
12
120
100
L(A5)
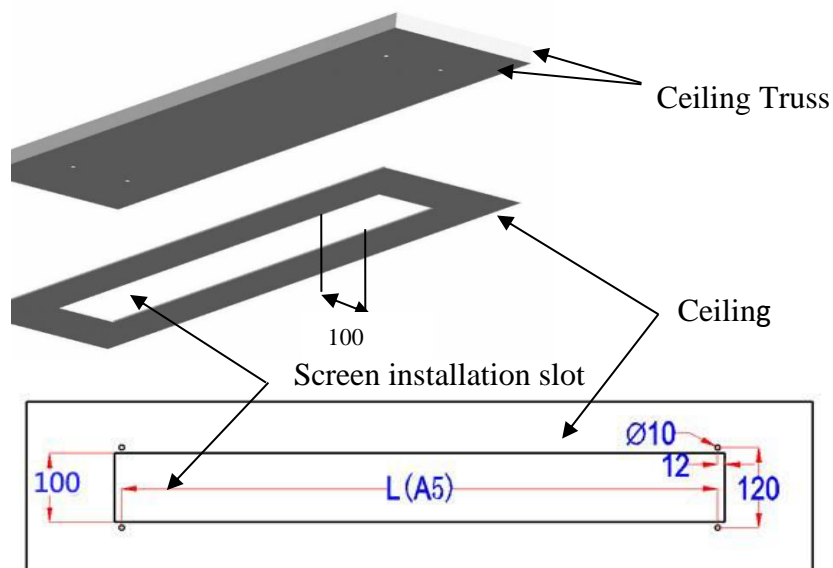
2. Drill 4 holes in the ceiling that correspond with the attachments on the various casing sizes. The width should be 120mm. The length of (A5) in the diagram below depicts the distance between the holes located on each ear end of the screen's case.
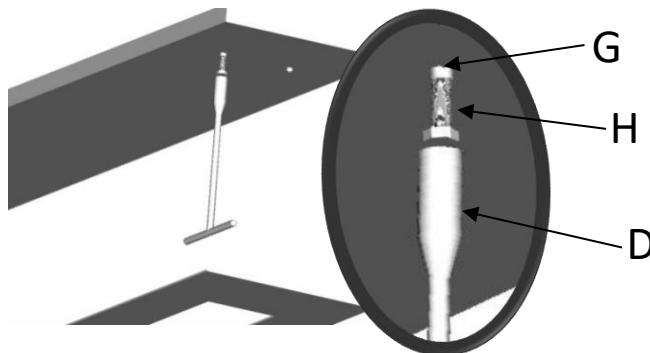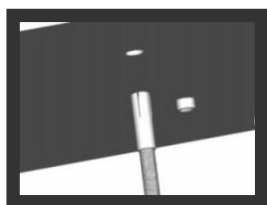

Ø10
120
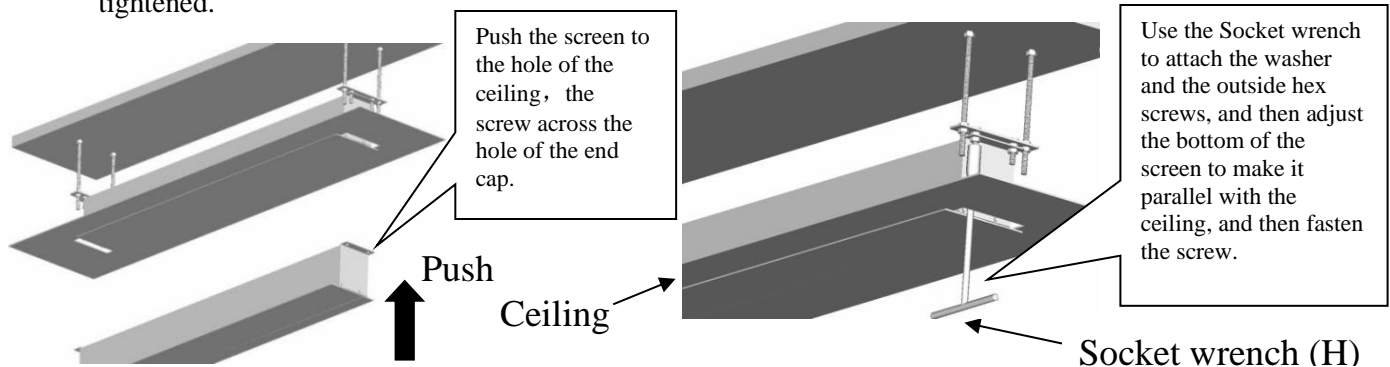L(A5)

70
L(A5)
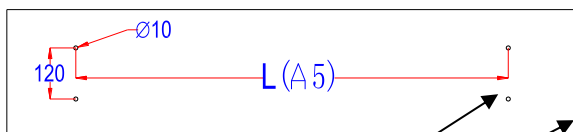
Install screw holes

The ceiling wall

3. The **M8expanding bolts** (G) mount into thick wood beams, stone or concrete and will support the screen. Use the **Socket wrench** (D) to attach the **M8x40mm hexagonal screws**. The expanding bolts should be firmly tightened and tested to make sure that they will hold the weight of the screen.


G

H

D

4. Insert the **threaded rods**(C) through the **M8 expanding bolts** and then attach the **M8x40mm hexagonal screws** with the **washer** (E). Last put the **Hanging Bracket** (B) through the threaded rod equal to the height of the screen's housing. Once they are firmly in place (as shown below) make sure that they will hold the weight of the screen.
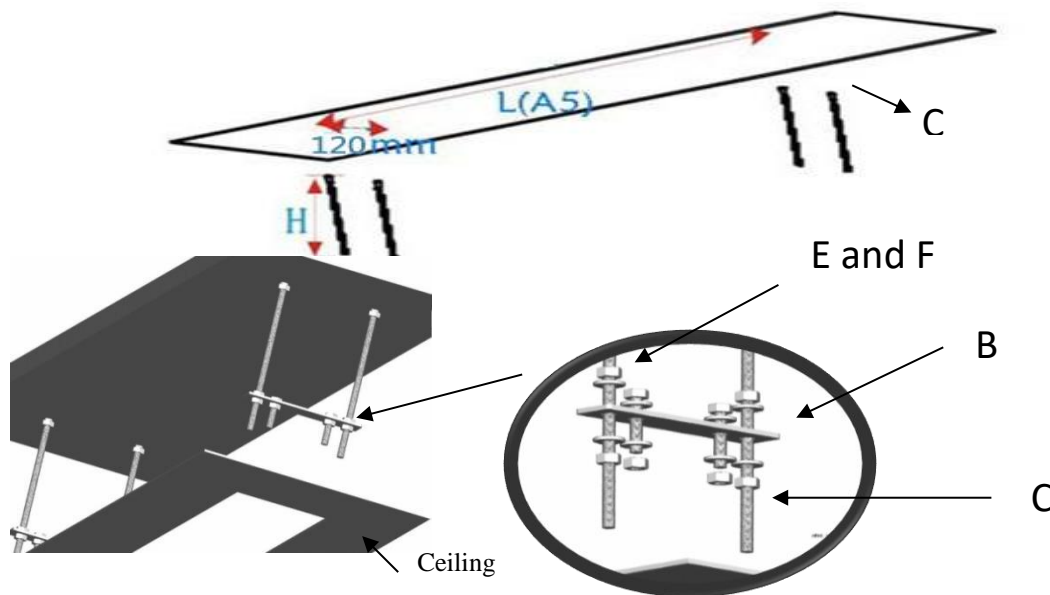
Ceiling

5. Push the screen up into the space. Use the **threaded rods** (C) to attach the screen assembly to the ceiling. The **hexagonal screws** (E) will connect the screen to the rest of the assembly. Once firmly in place; use the **nuts** (F) to ensure a firm connection. Use the **socket wrench** (D) to make sure that the bolts are firmly tightened.

Push the screen to the hole of the ceiling，the screw across the hole of the end cap.

Push

Ceiling

Use the Socket wrench to attach the washer and the outside hex screws, and then adjust the bottom of the screen to make it parallel with the ceiling, and then fasten the screw.

Socket wrench (H)

6. Install **end flange cover panel** (A) between the gap and the screen to complete the installation.
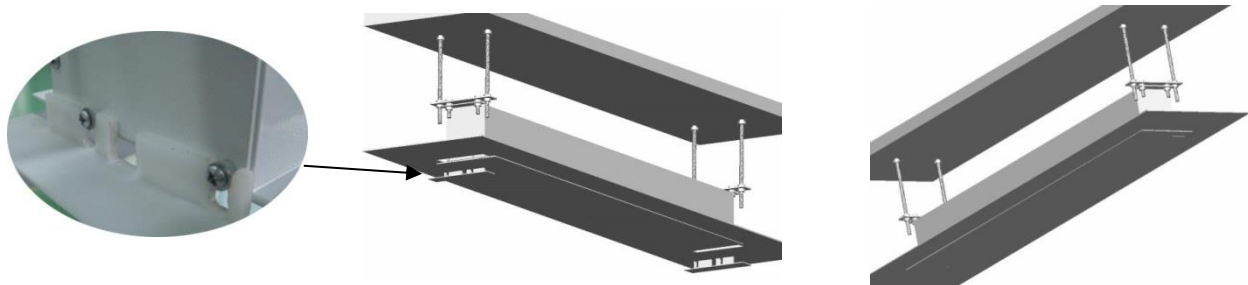
For local Elite Screens contact or Technical Support, please visit
www.elitescreens.com