Electric Wall/Ceiling Projection Screen

Tension Pro Series
User's Guide

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 EliteProAV™. 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 (877) 511-1211.

- 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, 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 of this unit is connected and 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 manufacturer. Please contact EliteProAV™ 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.
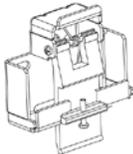
- ✓ **Reorient or relocate the receiving antenna of the device which may be causing the interference.**
- ✓ **Increase the separation between the screen and the device's receiver.**
- ✓ **Connect the equipment into a different power outlet other than the device.**

Pre-Installation

1. Carefully unpack the screen.
2. Always handle the screen in a leveled position on a clean surface.
3. 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.

Hardware Parts List

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

A. Wall/Ceiling bracket x 2	B. Eyebolt x 4	C. Hex nut x 4
D. 5mmx40mm wood screw x 4	E. Snap Link x 2 to 4 (depending on model)	
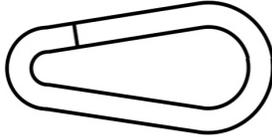
Installation Instructions

The installer must ensure that the fasteners used are of adequate strength and suitable for the installation location. Be sure to use hardware that is rated for the screen's weight. The steps below are a general method of wall installation.

Wall Installation

1. Determine the installation location and measure and mark the (L) distance between the two holes on each bracket (see figure 1and 2). Make sure the brackets are leveled.
2. Drill a pilot hole for each wood screw/concrete bolt on the marked areas.
3. Place the brackets over the pilot holes and install the wood screw/concrete bolt in the marked areas.
4. Hang the screen by aligning the back of the screen's casing to the wall bracket as shown in Fig 3. You will hear a click sound confirming the case has been properly attached and secured, Fig. 4.

L

Fig.1

Fig.2

Wall

Fig.3

Fig.4
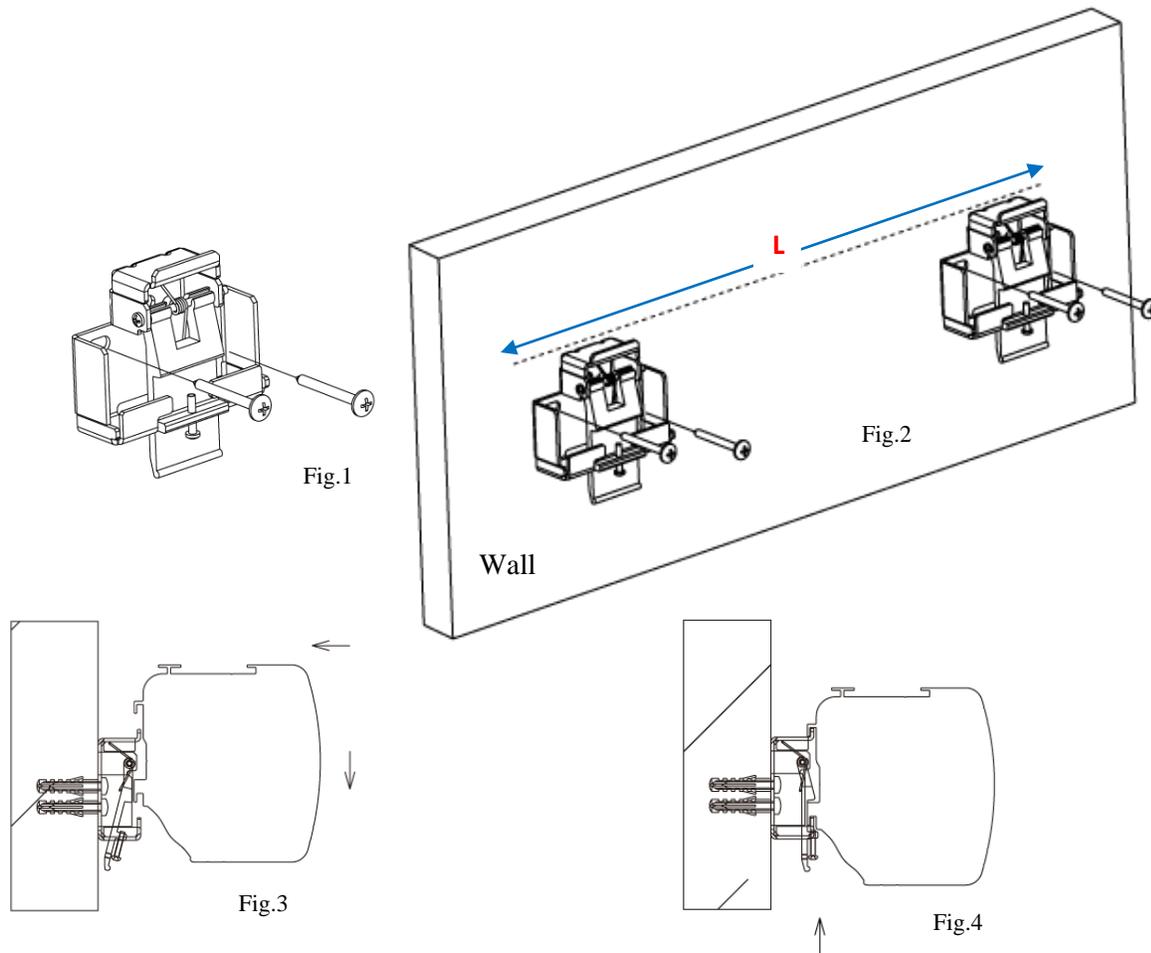
Flush Ceiling Installation

1. Determine the installation location and measure and mark the (L) distance between the two holes on each bracket (see figure 5 and 6). Make sure the brackets are leveled.
2. Drill a pilot hole for each wood screw/concrete bolt on the marked areas.
3. Place the wall/ceiling brackets over the pilot holes and install the wood screw/concrete bolt in the marked areas.
4. Hang the screen by aligning the back of the screen's casing to the bracket as shown in Fig 7. You will hear a click sound confirming the case has been properly attached and secured, Fig. 8.
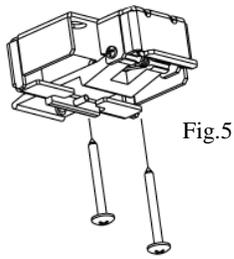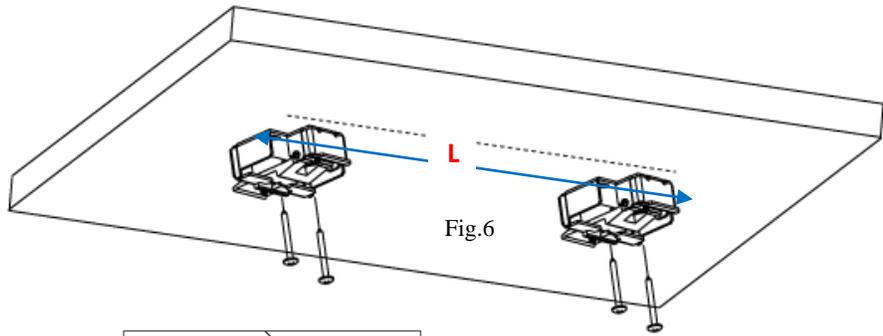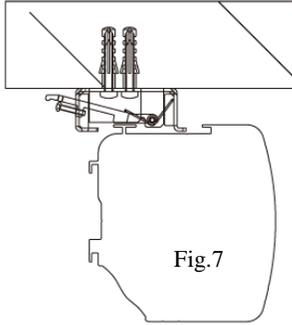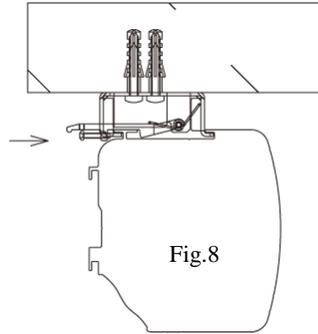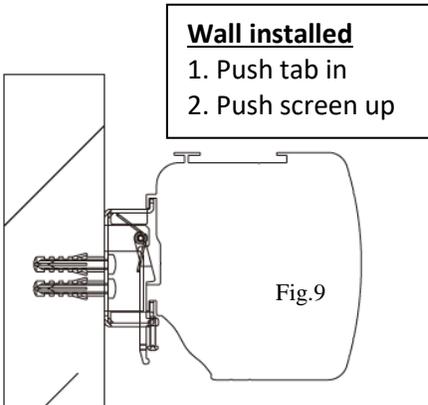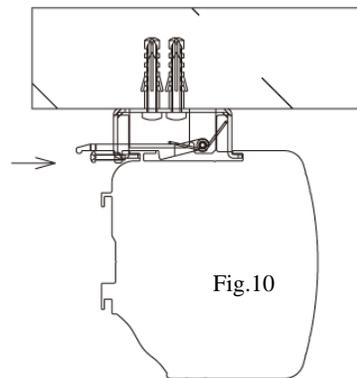
Fig.5

L

Fig.6

Fig.7

Fig.8

Screen removal from the wall bracket

Wall installed
1. Push tab in
2. Push screen up

Fig.9


Ceiling installed
1. Push tab in
2. slide out

Fig.10

Suspended Installation

The installer must ensure that the fasteners used are of adequate strength and suitable for the installation location. Be sure to use hardware that is rated for the screen's weight. The steps below are a general method of suspended ceiling installation. The parts listed below are included, **EXCEPT** for the *M6 Sleeve Hook and Chain. They are depicted only to provide a suggestion/idea of how to suspend to ceiling.*

It is strongly recommended to use this installation method on concrete only

1. Attach the eyebolt to the wall/ceiling bracket using a hex nut as shown on Fig 11.
2. Determine the installation location and measure and mark the (L) distance between the holes on each M6 sleeve hook (see figure 12). Make sure the sleeve hooks are aligned and leveled.
3. Drill a pilot hole in the ceiling for all holes.
4. Install a concrete bolt through the M6 sleeve hook into the ceiling at the marked areas.
5. Hang the screen from the eyebolt to the *M6 sleeve hook* connected to a chain of the preferred length.
6. Connect the chain to the eyebolt in the ceiling.

Fig.11

Fig.12

L

Fig.13

Fig.14
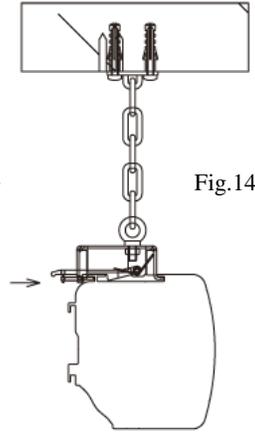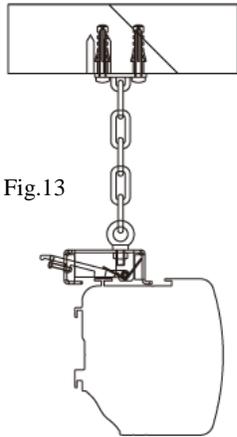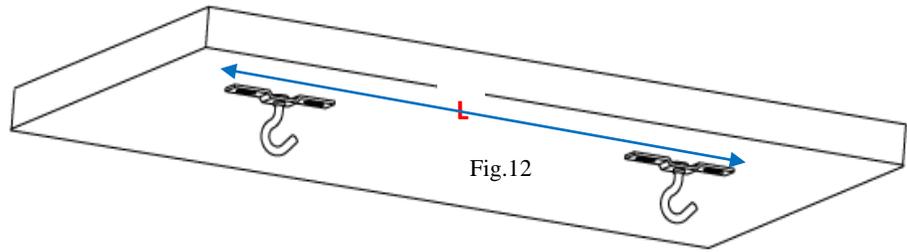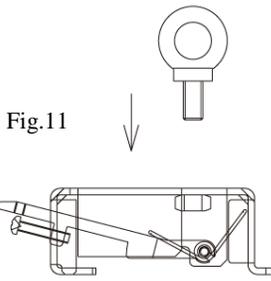
Tension Pro Series	Controls and Accessories		
A. IR Remote	**B. RF Remote**	**C. IR extended "eye" receiver**	**D. 5-12 volt trigger cable**

Note: Tension Pro series will not be compatible with Wireless 12V Trigger or In-Wall Switch

Screen Operation

Electric Current: Depending upon 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 4 methods described below.

12Volt Trigger Port

RS485 Port

IR Receiver Port

Emergency Manual Control Switch
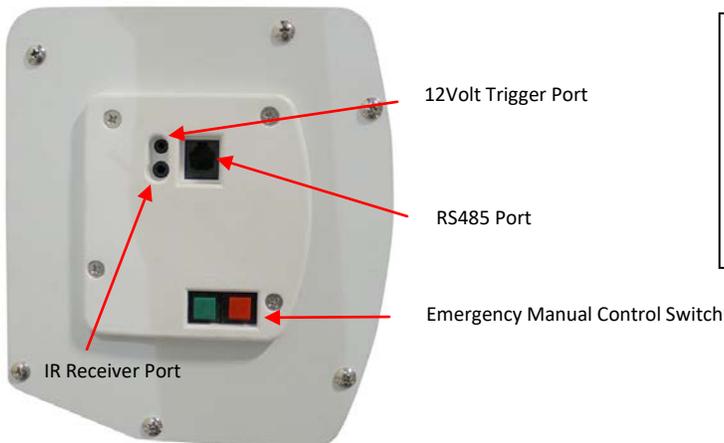
Tension Pro input ports and Manual Control Switch locations

CAUTION: The Emergency Manual Control switches are to be used for emergency only. They are not recommended for everyday use

5 ways to control your Tension Pro

1. *IR Remote Control* (**Item A, Fig 1**): The Infrared functions by direct line of sight contact with a beam range of 25 feet. Simply aim the IR remote at the IR receiver to control the screen.

2. *RF Remote Control* (**Item B, Fig 1**): The radio waves eliminate the need for a direct line of sight with a range of 80 feet.

UP
STOP
DOWN

Fig.1
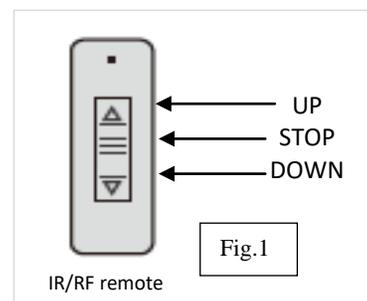
IR/RF remote

How to program your RF remote to your screen

When programming your remote, you first must enter the "coding state." While in the coding state, the screen will give out continuous short beeps. If there is no action made on the remote, the beeps will cease, and the screen will exit the coding state.

1. Enter the coding state.
   a. Unplug the screen.
   b. **Press and hold** the **UP** button while plugging the screen back into the power outlet
   c. You should hear the continuous short beeps. (You are in the coding state.)
2. Program your remote.
   a. **Press** the **UP** button.
   b. You should hear 3 short beeps.
   c. You are now able to control your screen with your RF remote.

Note: The screen can be programmed to work with up to 20 remotes.

How to deprogram the RF remote

When deprogramming your remote, you first must enter the "coding state." While in the coding state, the screen will give out continuous short beeps. If there is no action made on the remote, the beeps will cease, and the screen will exit the coding state.

Deprogram one remote

1. Enter the coding state.
   a. With the programmed remote, **press and hold** the **STOP** button.
   b. You should hear the continuous short beeps. (You are in the coding state.)
2. Deprogram one remote.
   a. **Press** the **DOWN** button.
   b. You should hear 3 short beeps.
   c. Your remote has now been erased from the screen's memory.

Deprogram ALL remotes

Reset Button

1. Preparation.
   a. Have a thin, sharp object ready.
   b. Remove the cover on the back of the remote.
   c. Locate the reset button for next steps.
2. Enter the coding state.
   a. With the programmed remote, **press and hold** the **STOP** button.
   b. You should hear the continuous short beeps. (You are in the coding state.)
3. Deprogram ALL remotes.
   a. Press the reset button on back of remote with a thin, sharp object.
   b. You should hear 3 short beeps.
   c. All remotes have now been erased from the screen's memory.
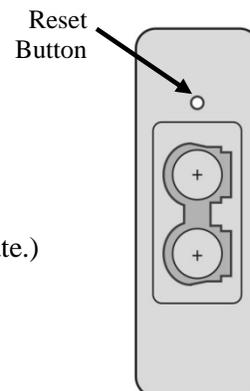
3. _IR "Eye" Receiver_ (**Item C**): The Infrared functions by direct line of sight contact with a beam range of 25 feet. The IR "Eye" receiver plugs directly into the IR port located on the left side end of the screen (see example images for port location). Once connected, simply aim the IR remote at the IR "Eye" receiver to control the screen.

4. _5-12 volt trigger_ (**Item D):** 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 on and will retract when the projector powers off. Plug the 3.5mm end to the projector's output port and the 2.5mm end to the trigger port on the screen's case (see example images for port location).
Note: You may need to enable this feature in your projector settings.

5. _RS485_

A. RS485 Port Setting
1. Baud Rate: 2400
2.Data Length: 8
3. Parity: N
4. Start Position: 1
5. Stop Position: 1

1. RS485-B
2. RS485-A
3. Manual control switch (UP)
4. Manual control switch (STOP)
5. Manual control switch (DOWN)
6. Manual control switch public line

B. Control Codes
1. UP code: 0xFF 0xAA 0xEE 0xEE 0xDD
2. STOP code: 0xFF 0xAA 0xEE 0xEE 0xCC
3. DOWN code: 0xFF 0xAA 0xEE 0xEE0xEE
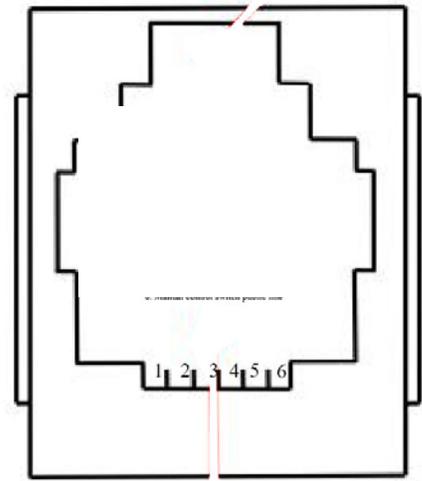
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